

FIG.1

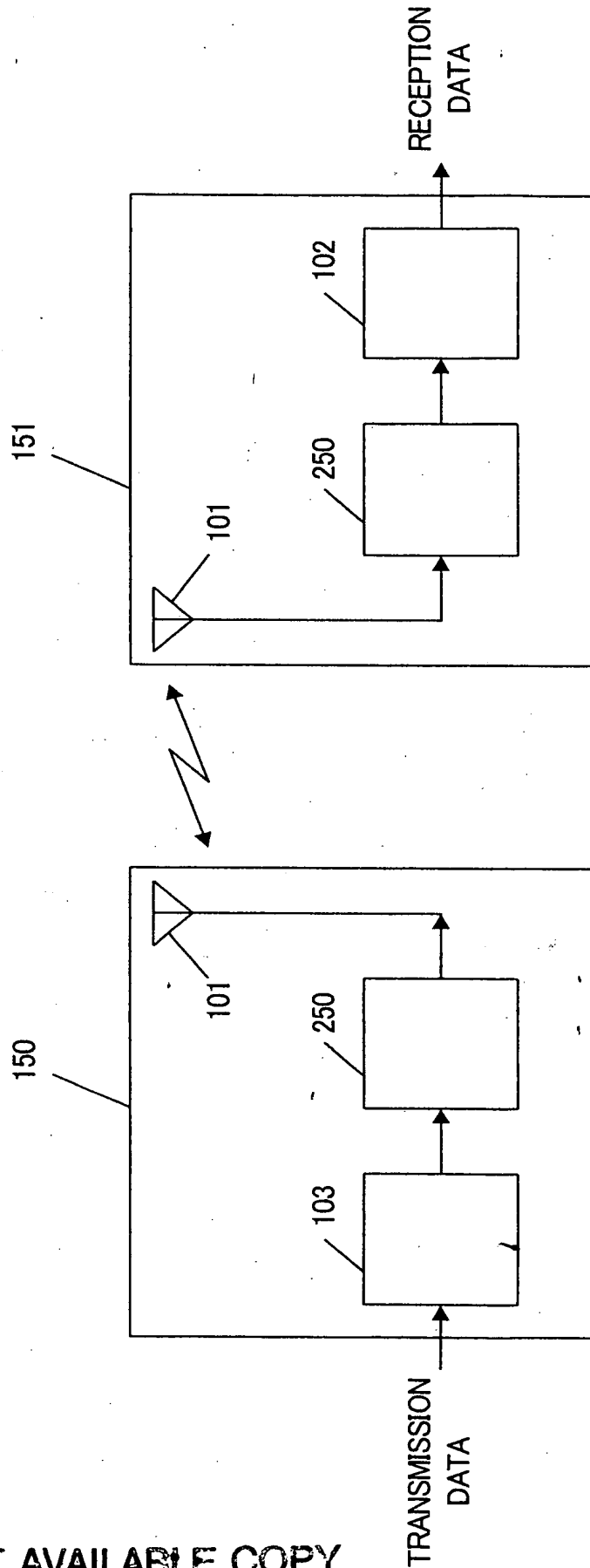


FIG.2

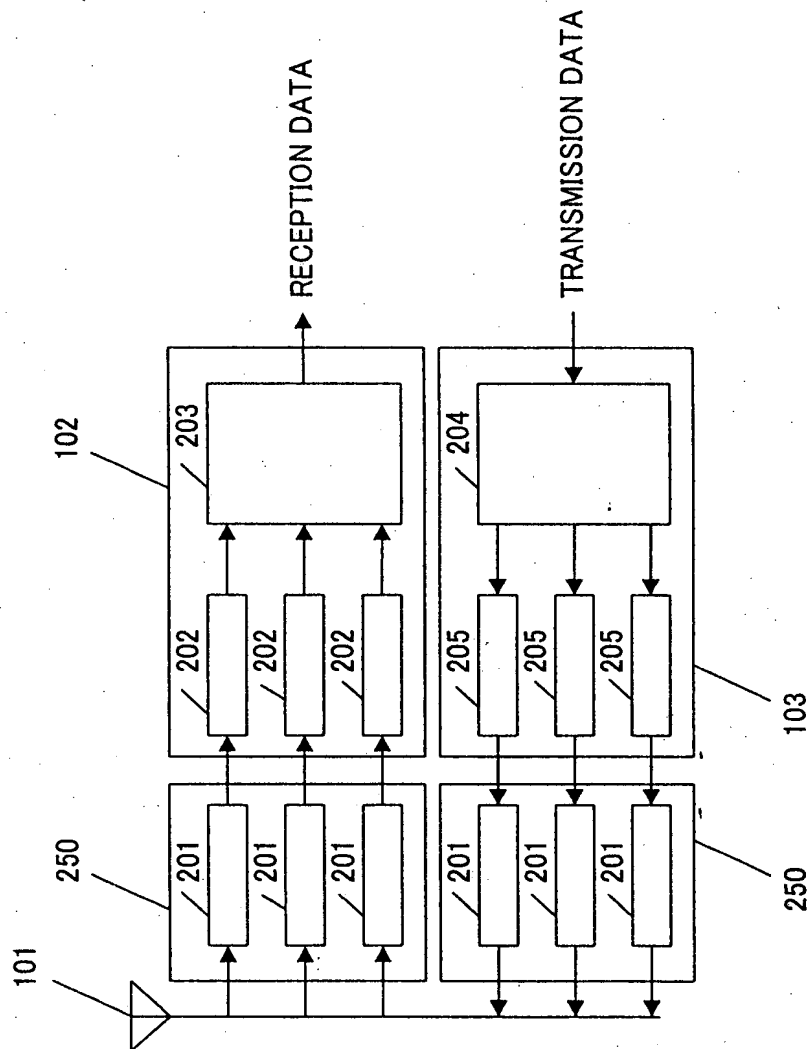


FIG.3

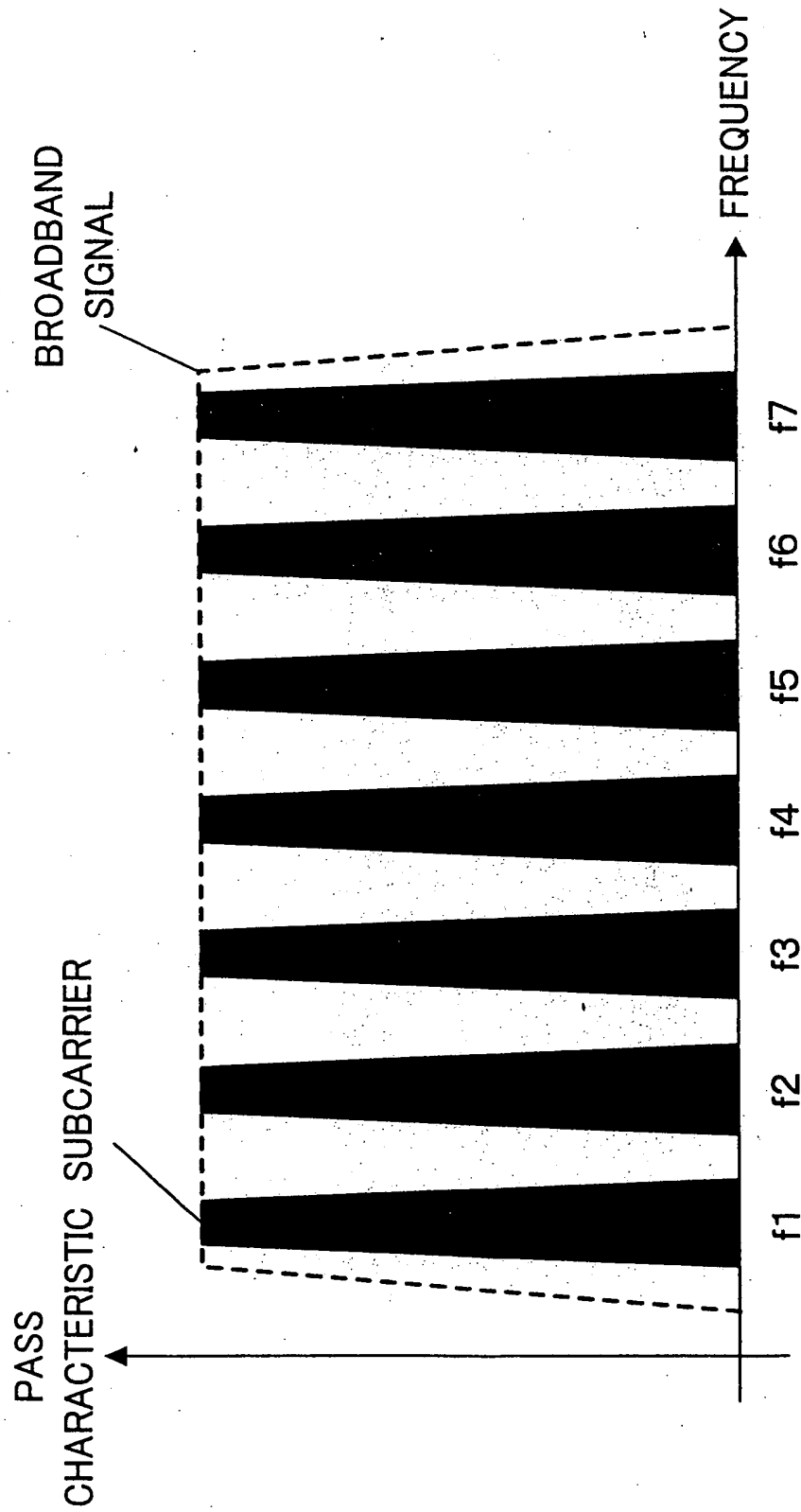


FIG.4

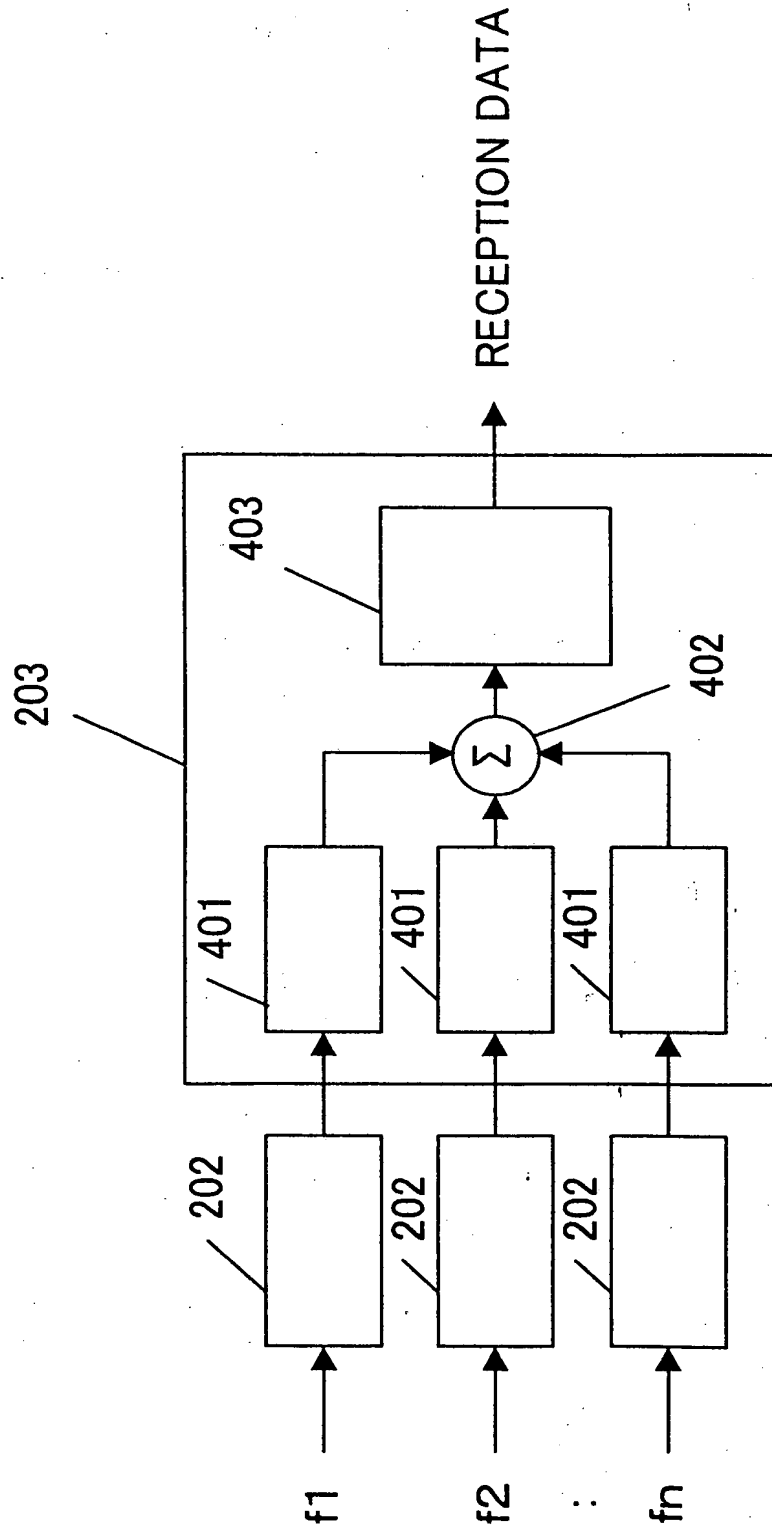


FIG.5

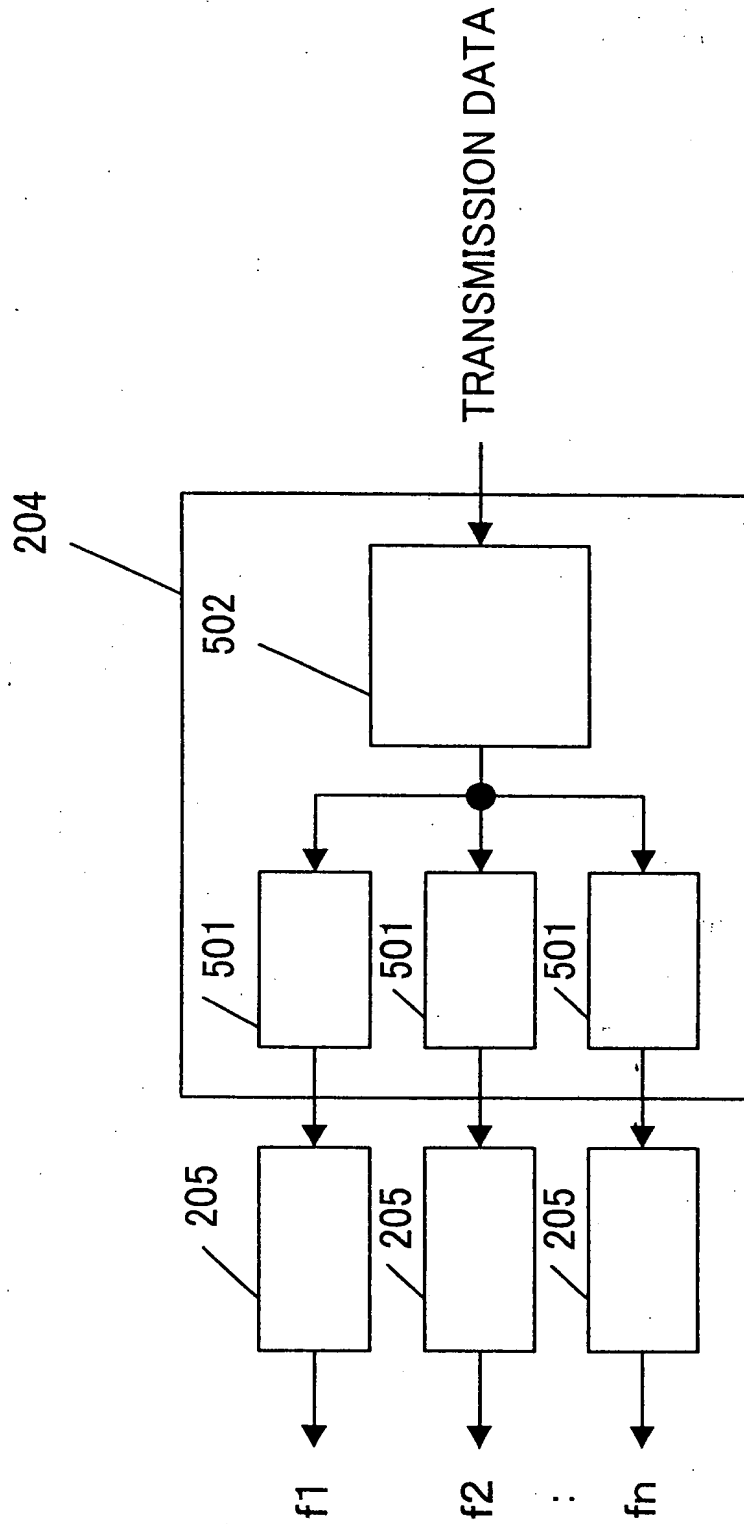


FIG.6

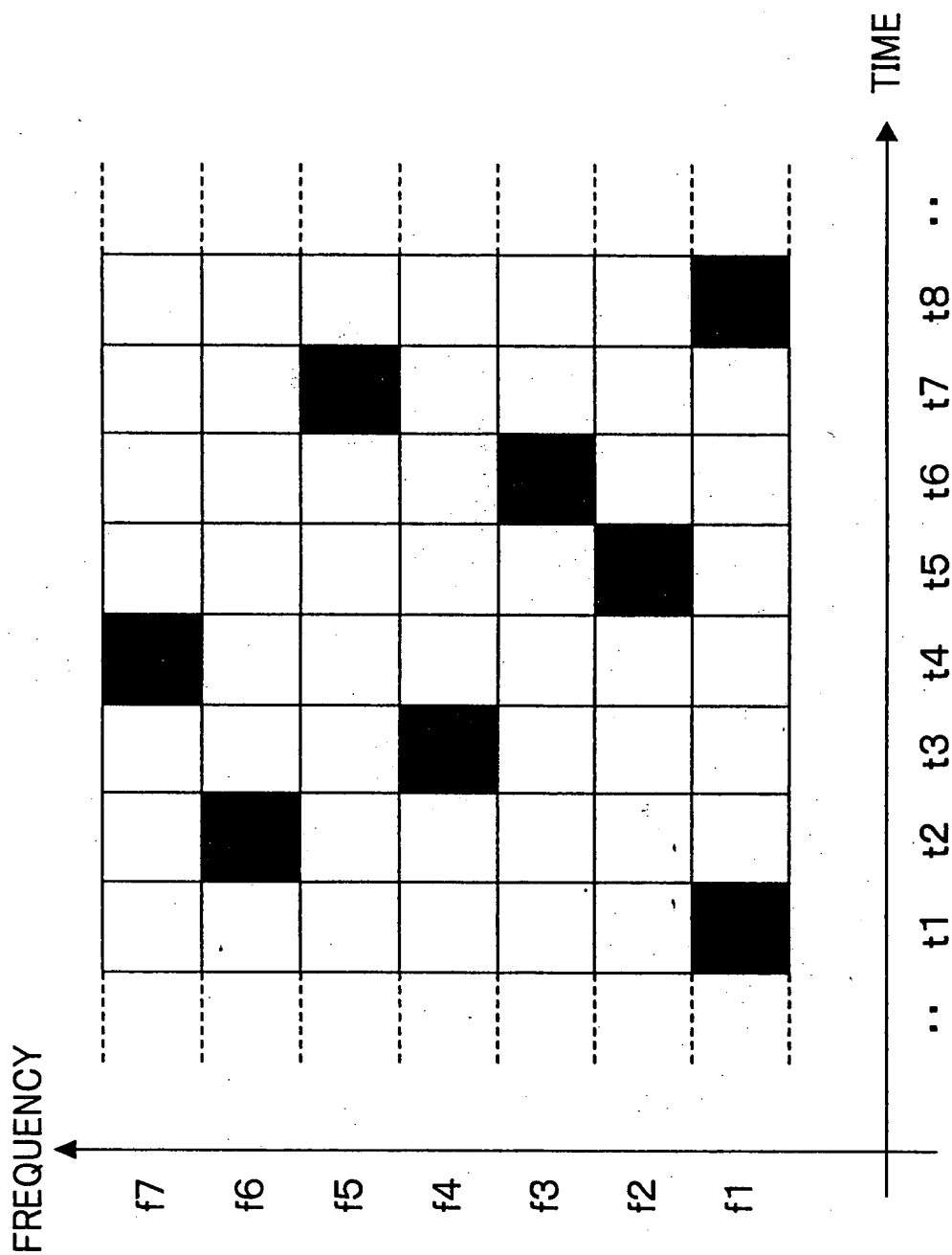


FIG.7

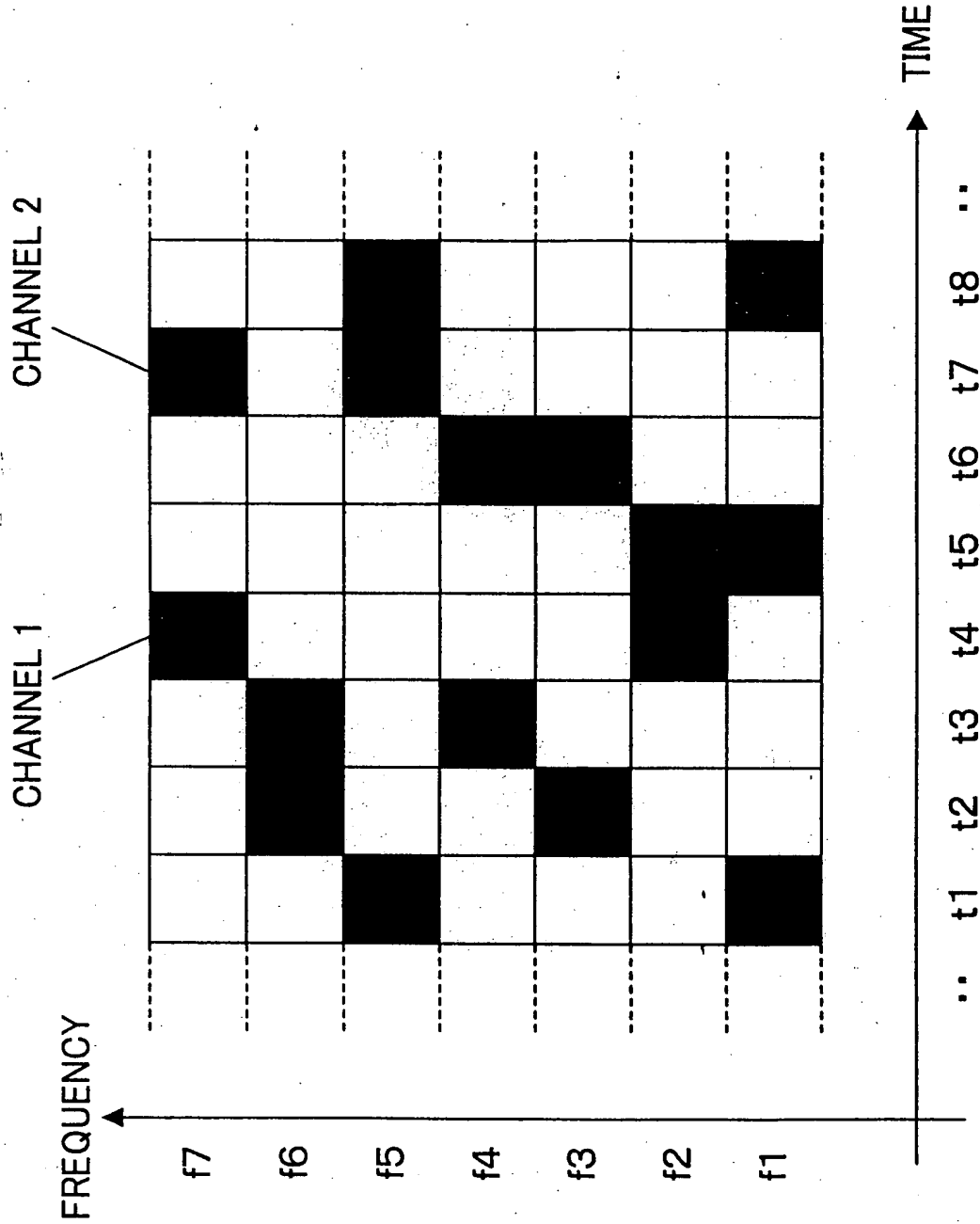


FIG.8

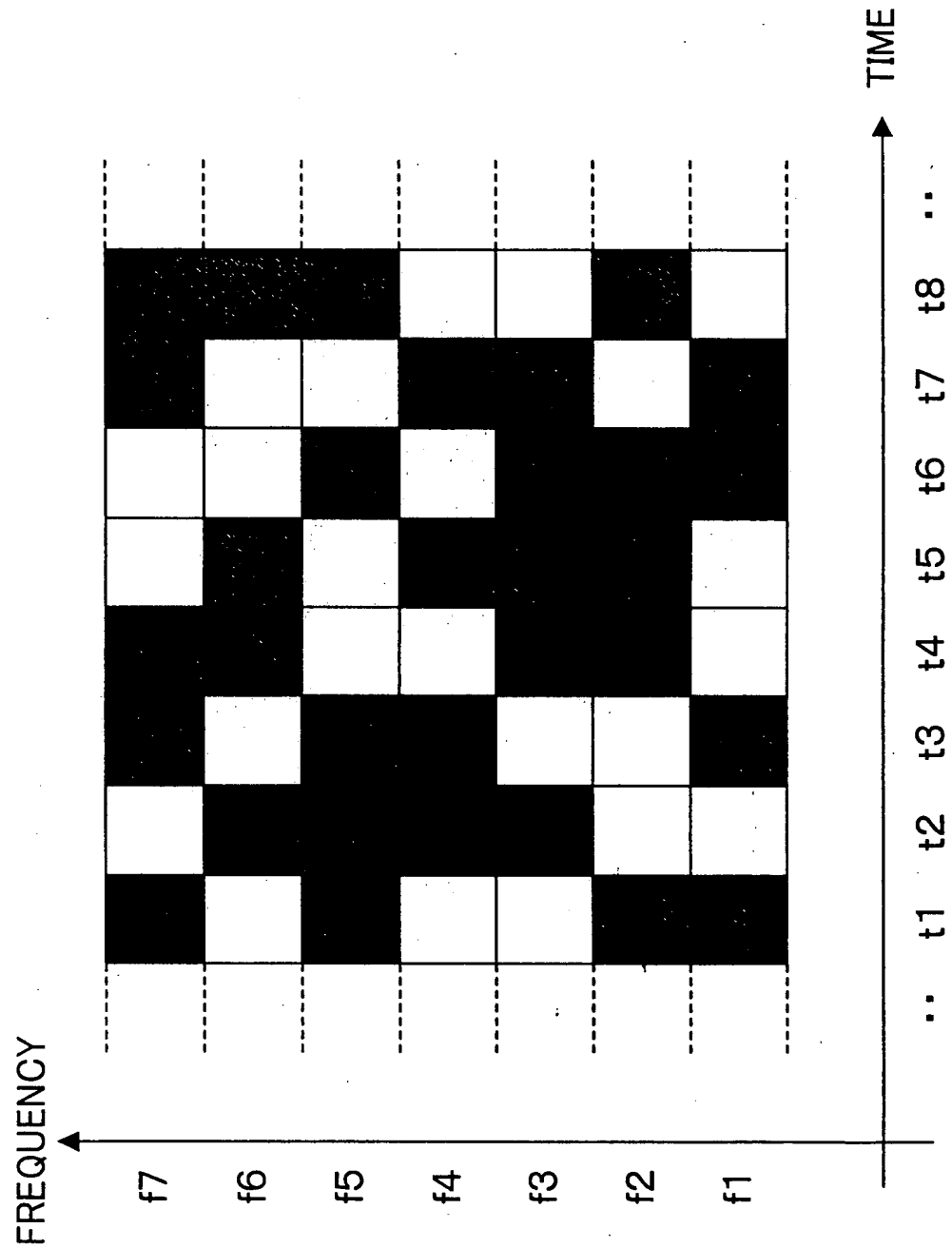


FIG.9

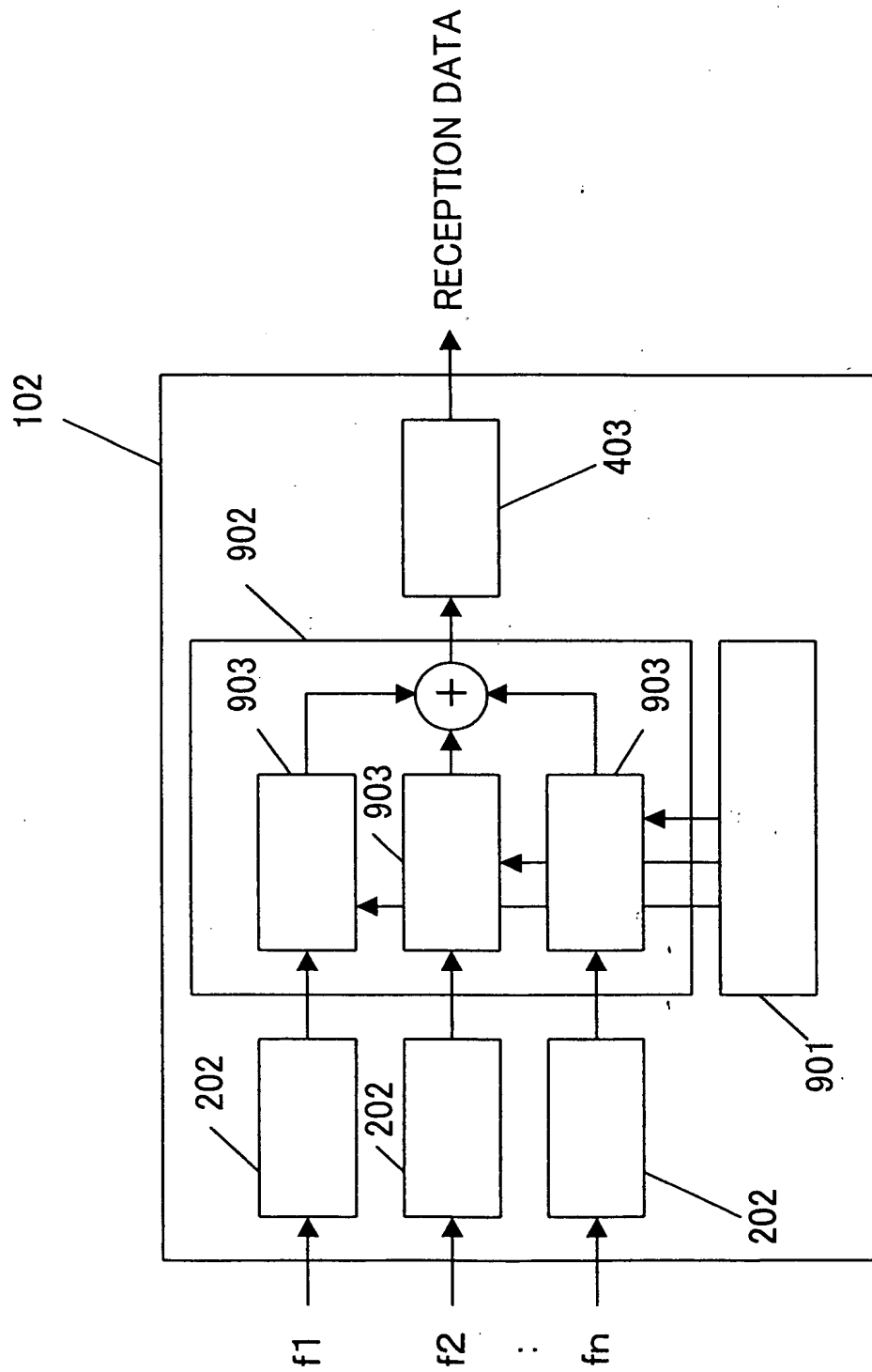


FIG.10

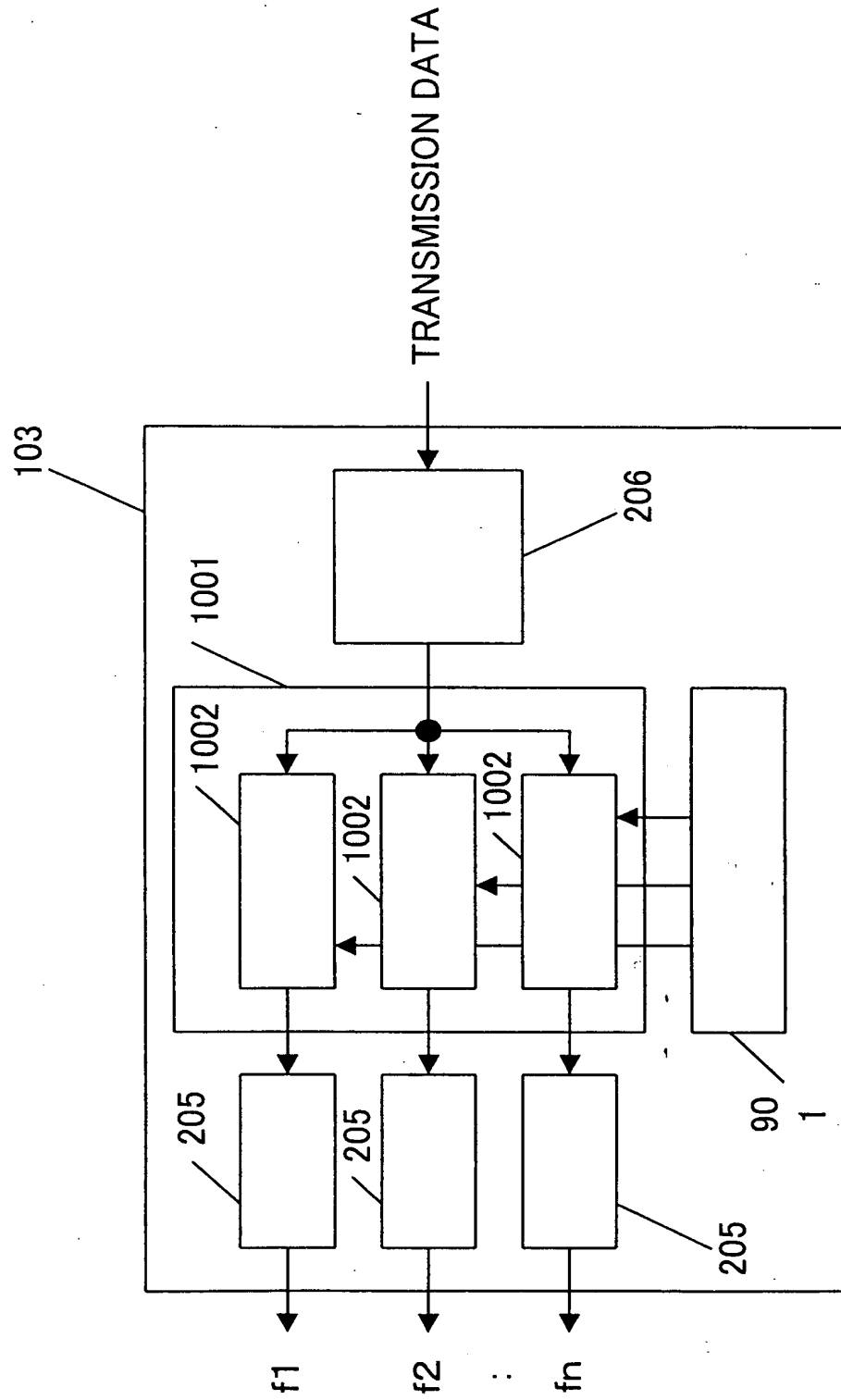


FIG.11

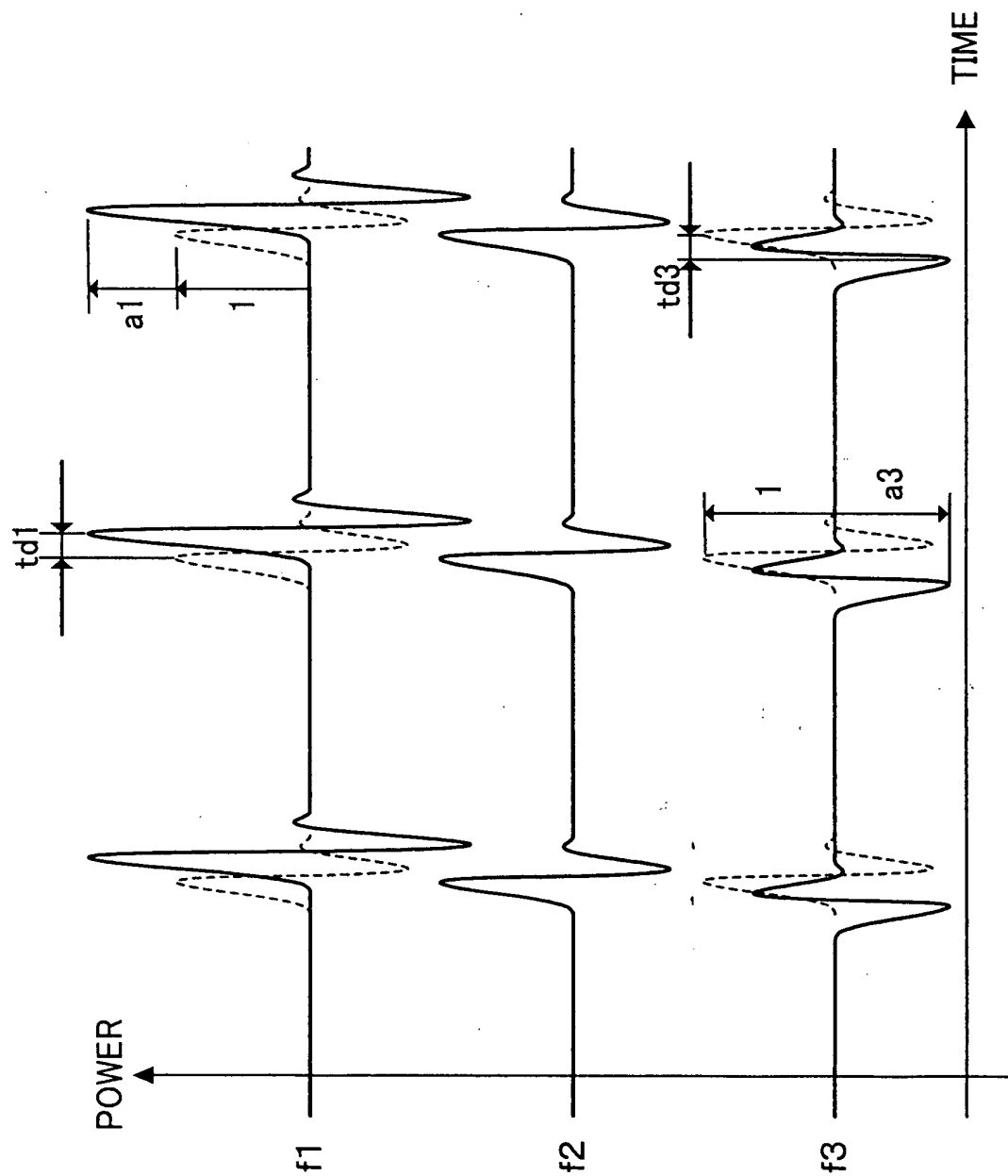
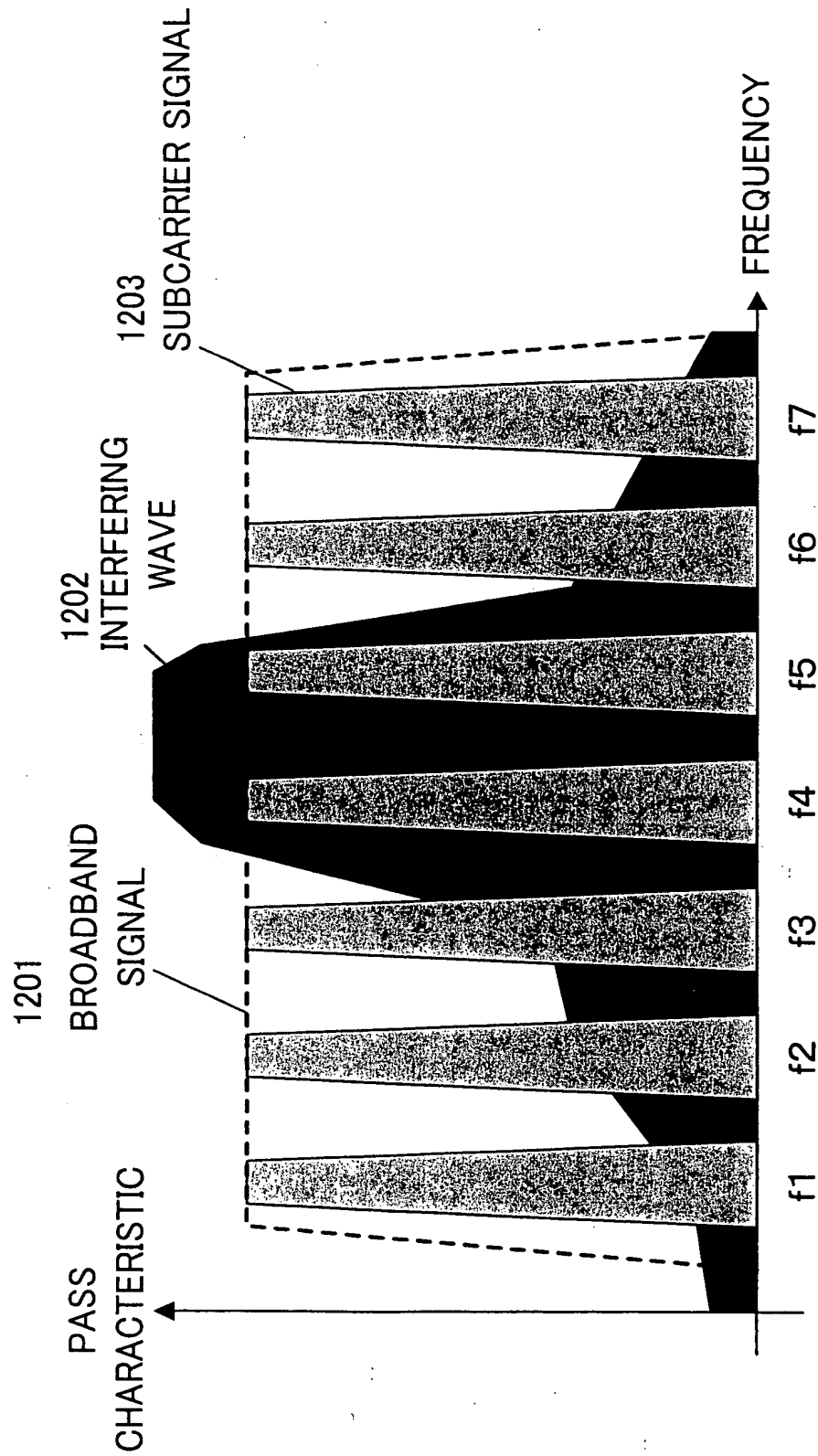


FIG.12



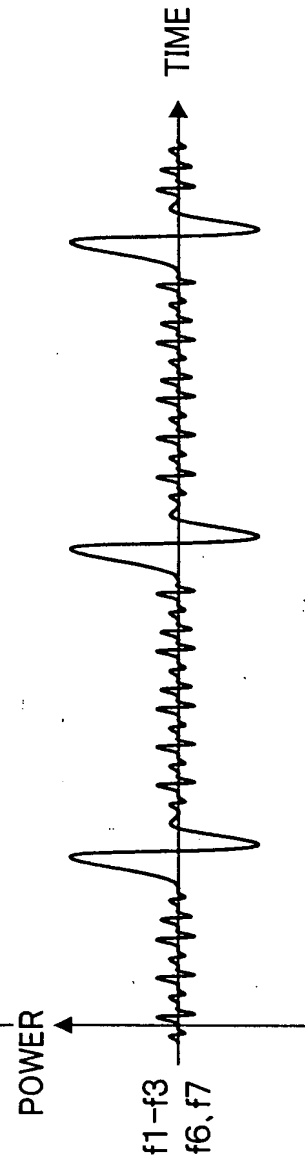
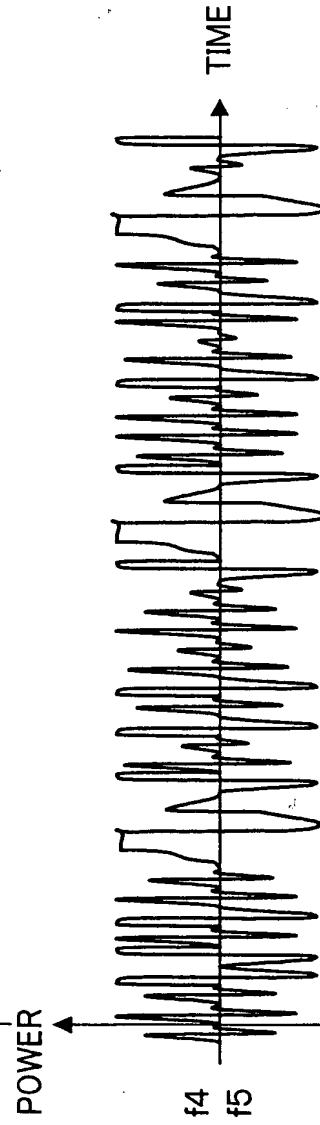
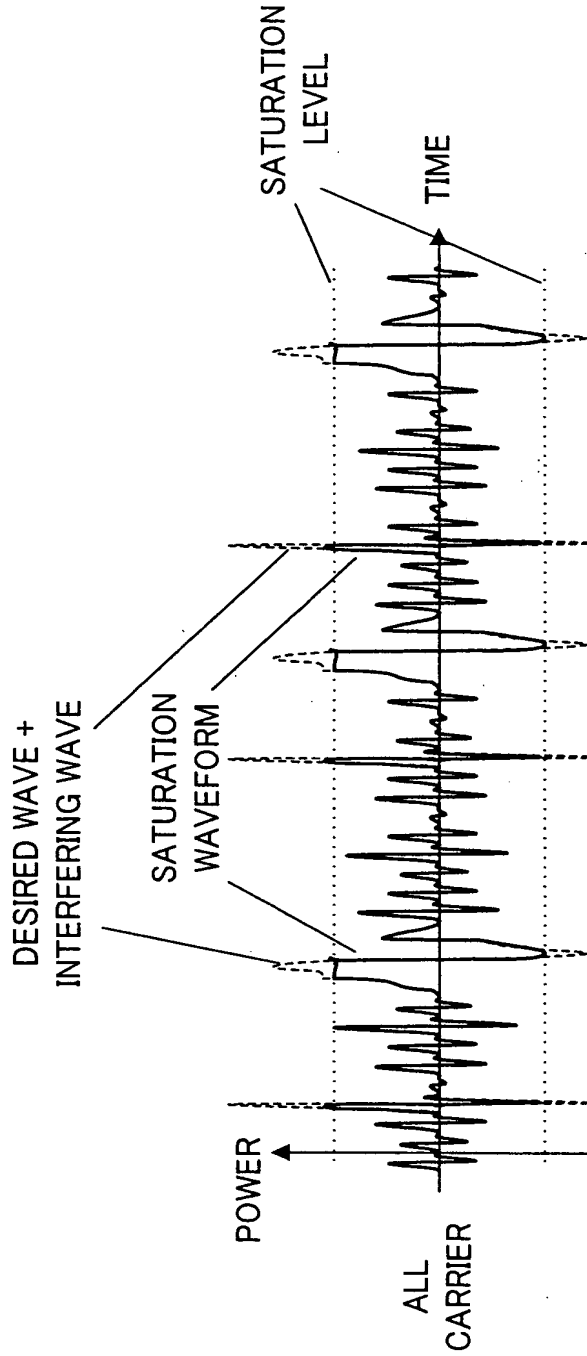


FIG.14

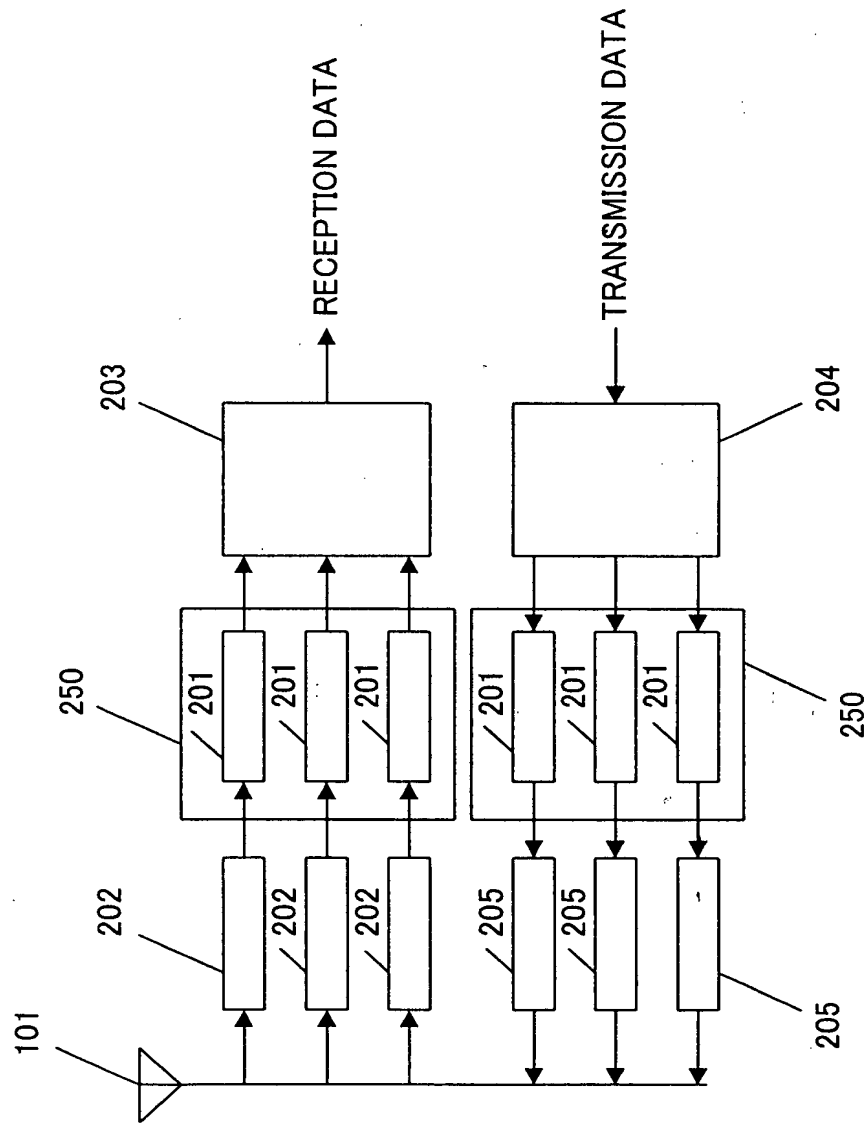


FIG.15

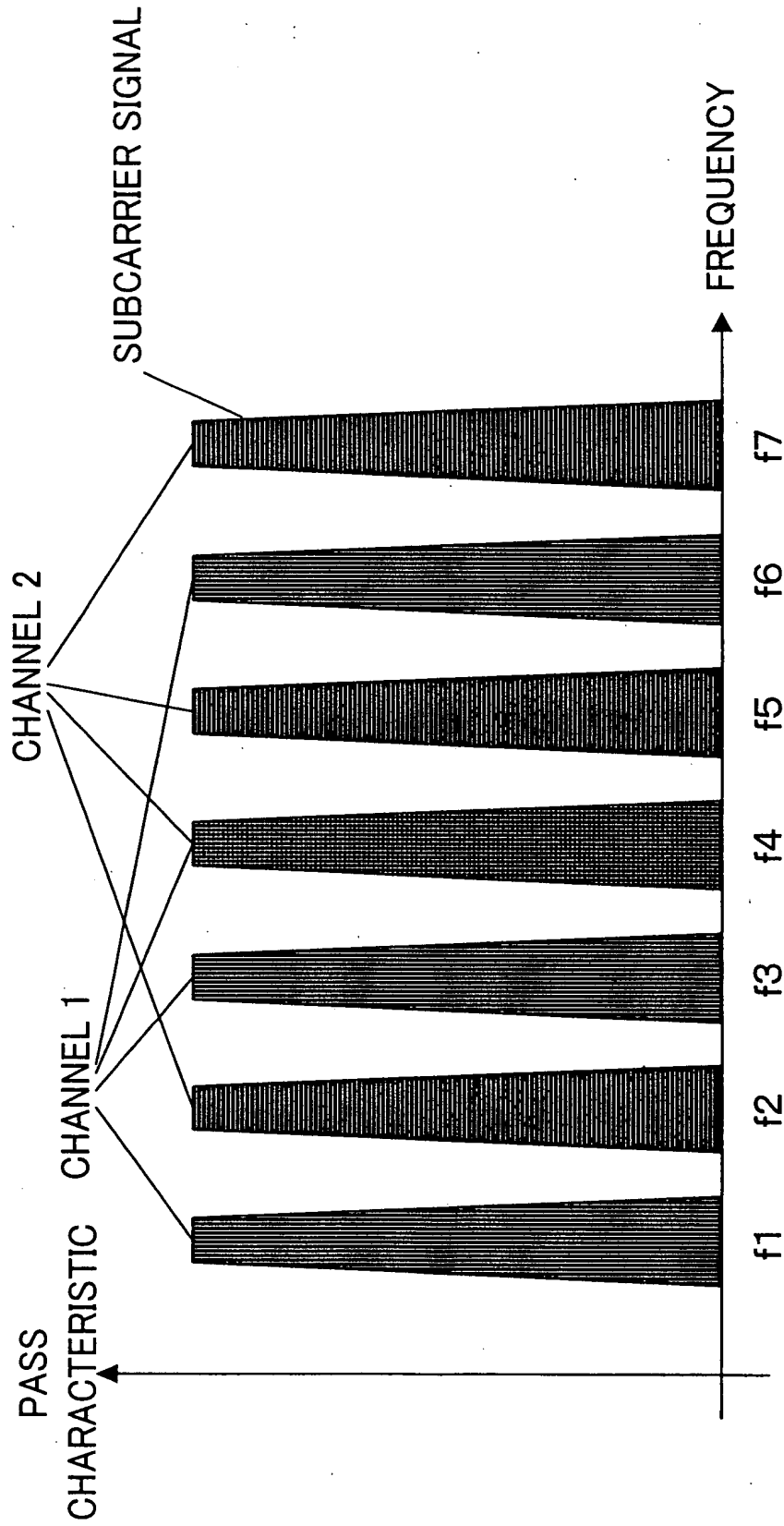


FIG.16

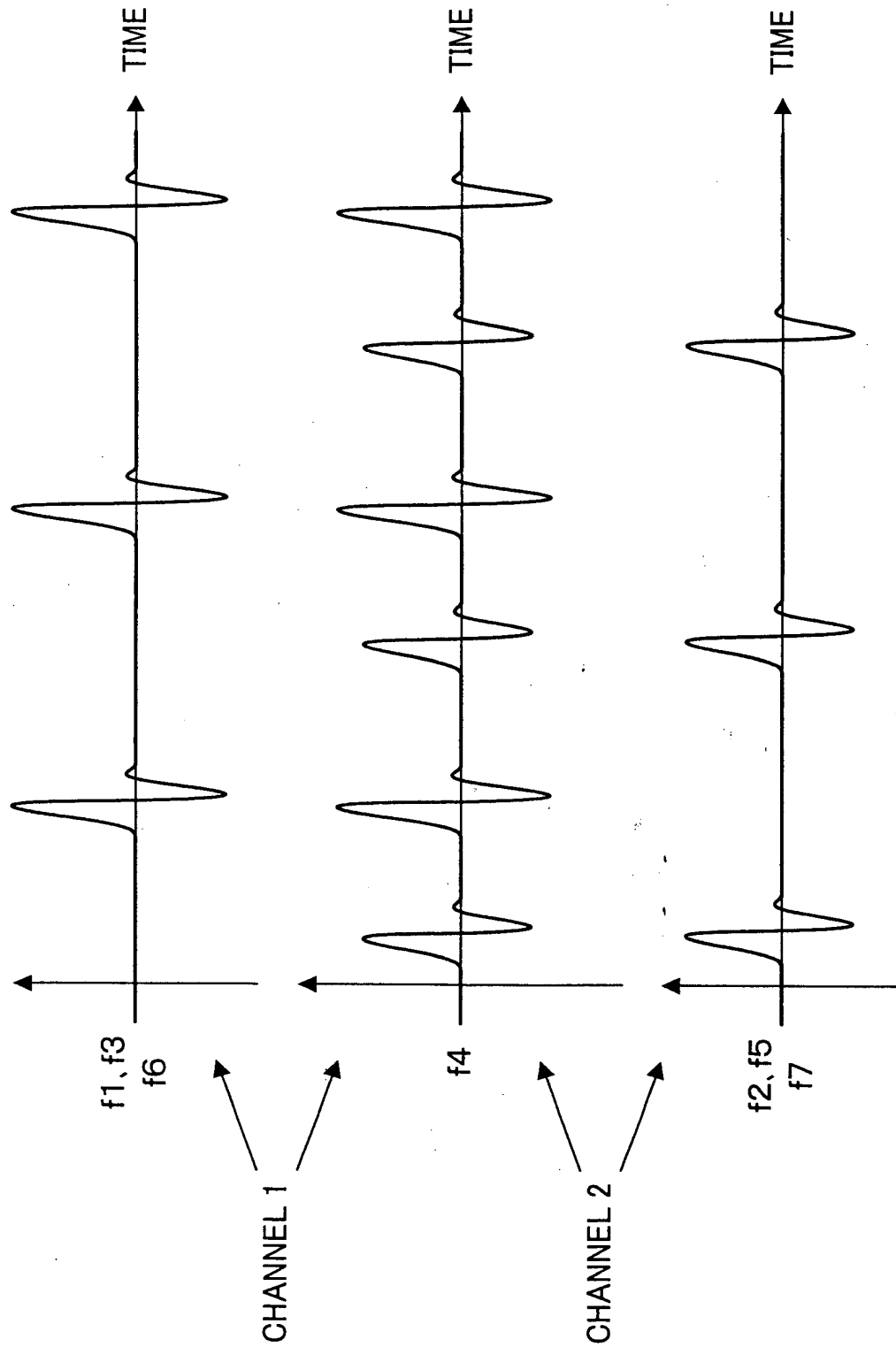


FIG.17

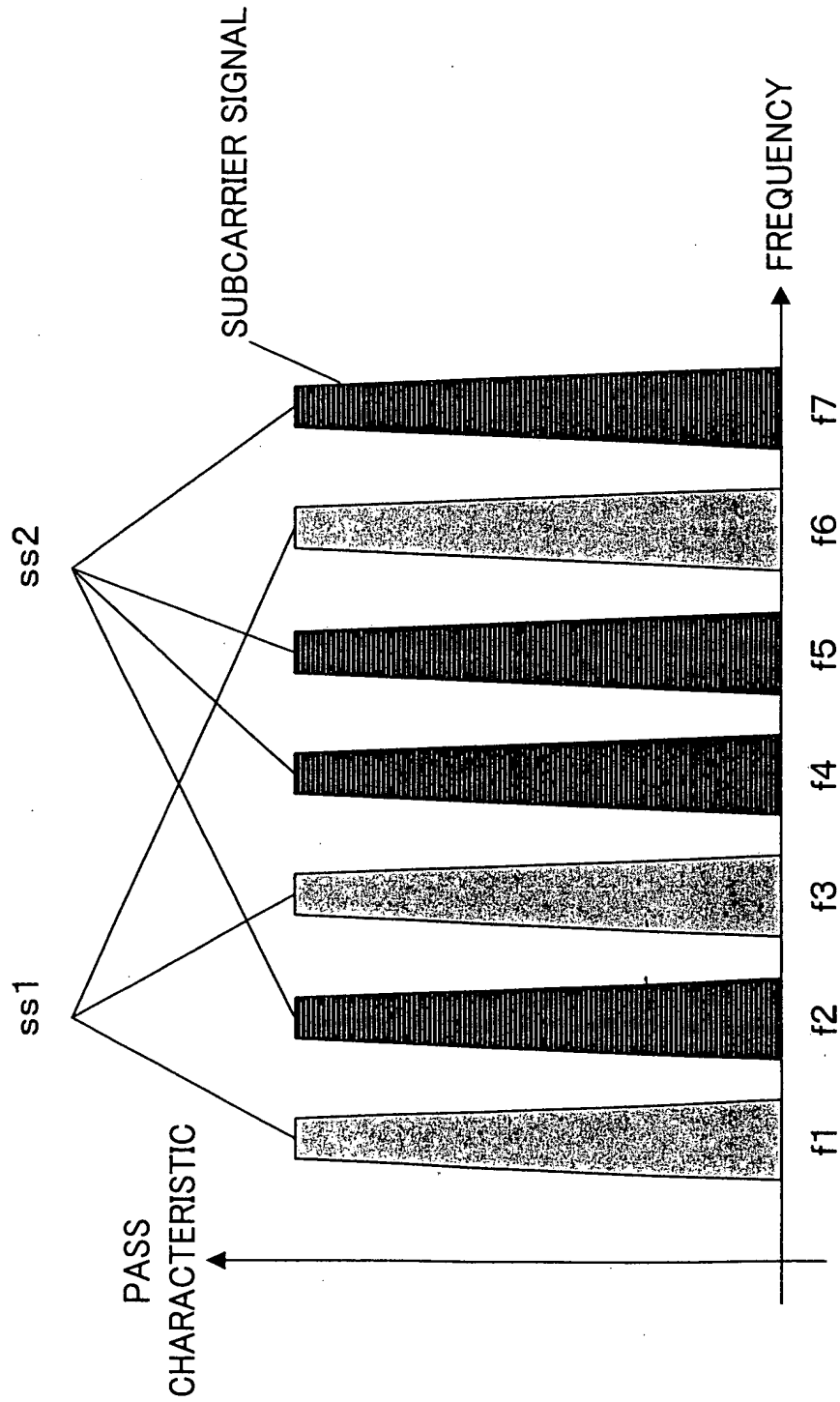


FIG.18

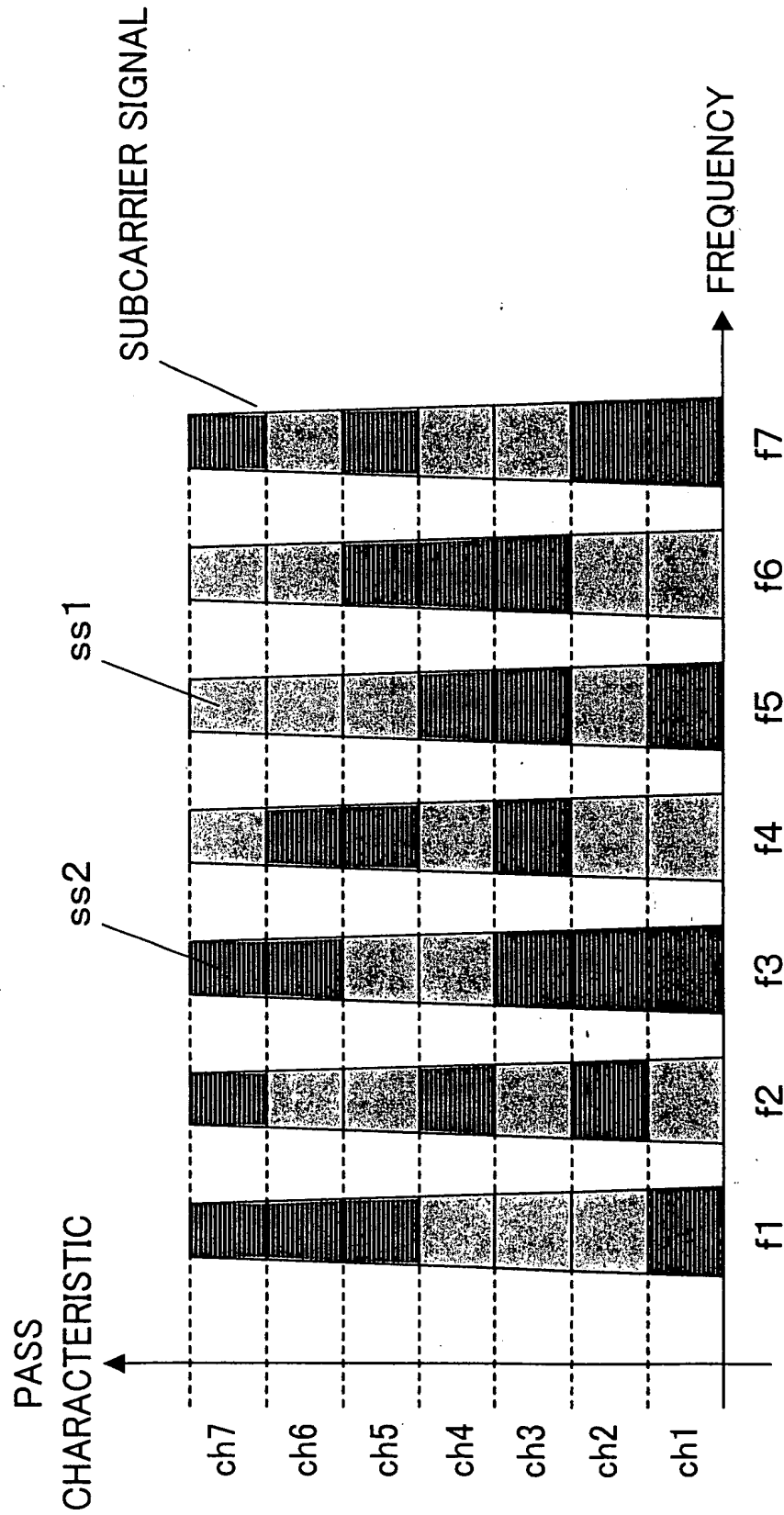


FIG.19

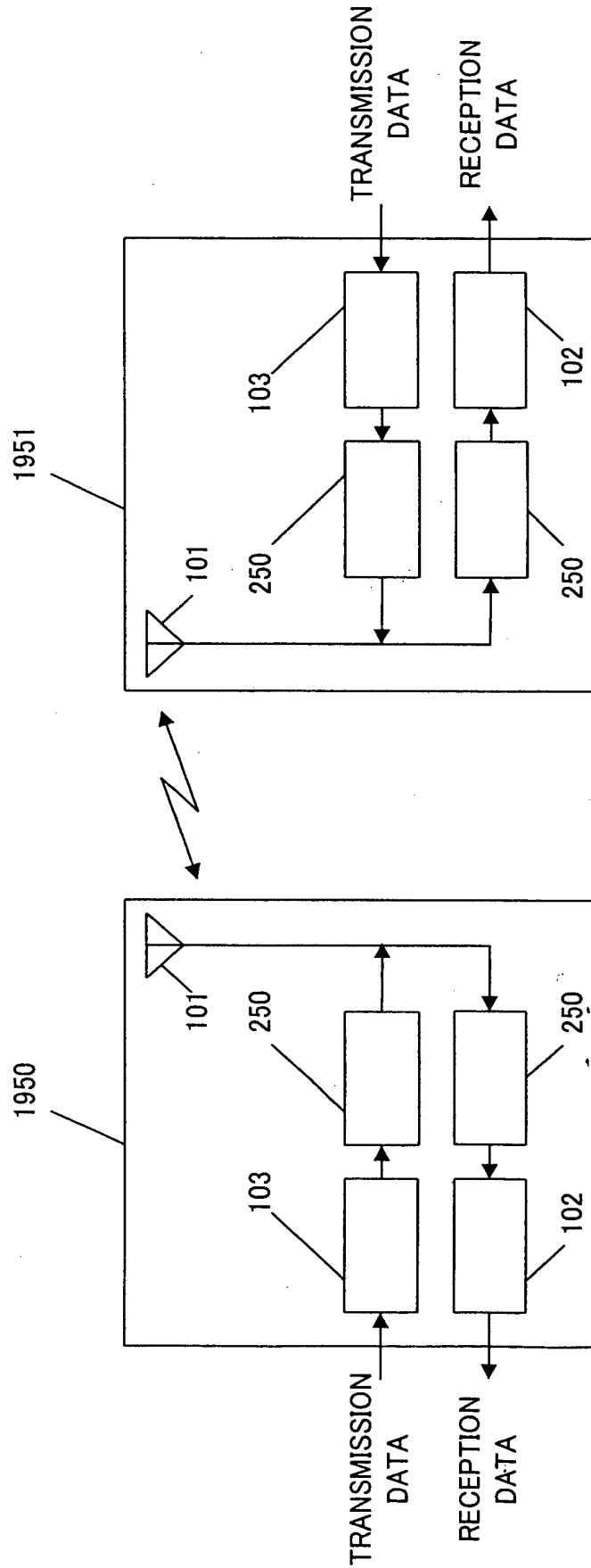


FIG.20

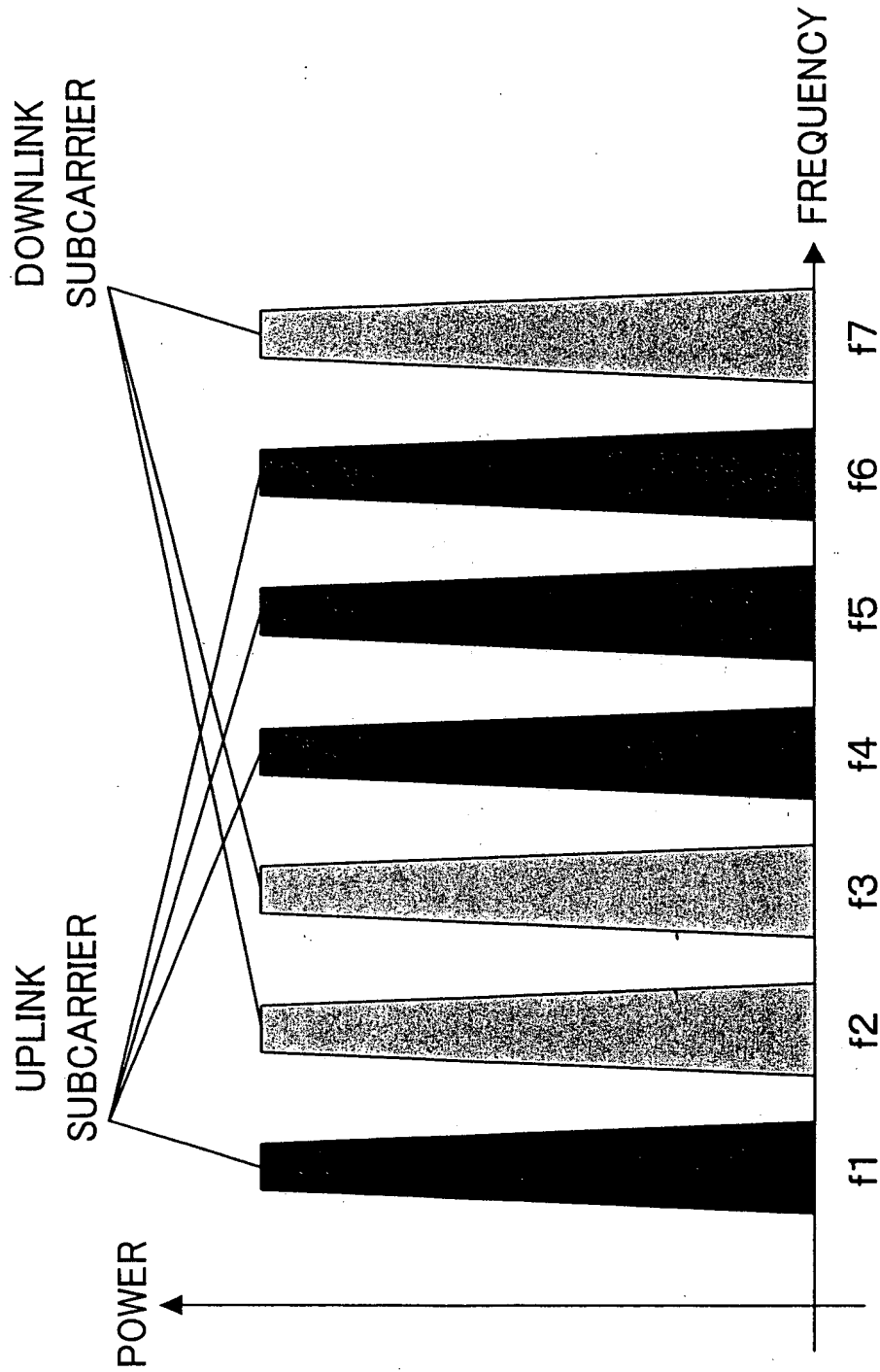


Figure 1 is a frequency-time diagram illustrating the allocation of subcarriers for downlink and uplink communication. The vertical axis represents frequency, with subcarriers labeled f1 through f7. The horizontal axis represents time, divided into five communication conditions: INITIAL STATE, COMMUNICATION CONDITION (1), COMMUNICATION CONDITION (2), COMMUNICATION CONDITION (3), and COMMUNICATION CONDITION (4). The diagram shows that subcarriers f1, f2, f3, f4, f5, f6, and f7 are used for both downlink and uplink communication across all five conditions. The 'CONTROL SUBCARRIER' is indicated for the first condition, and the 'UPLINK SUBCARRIER' is indicated for the last condition.

FIG.22

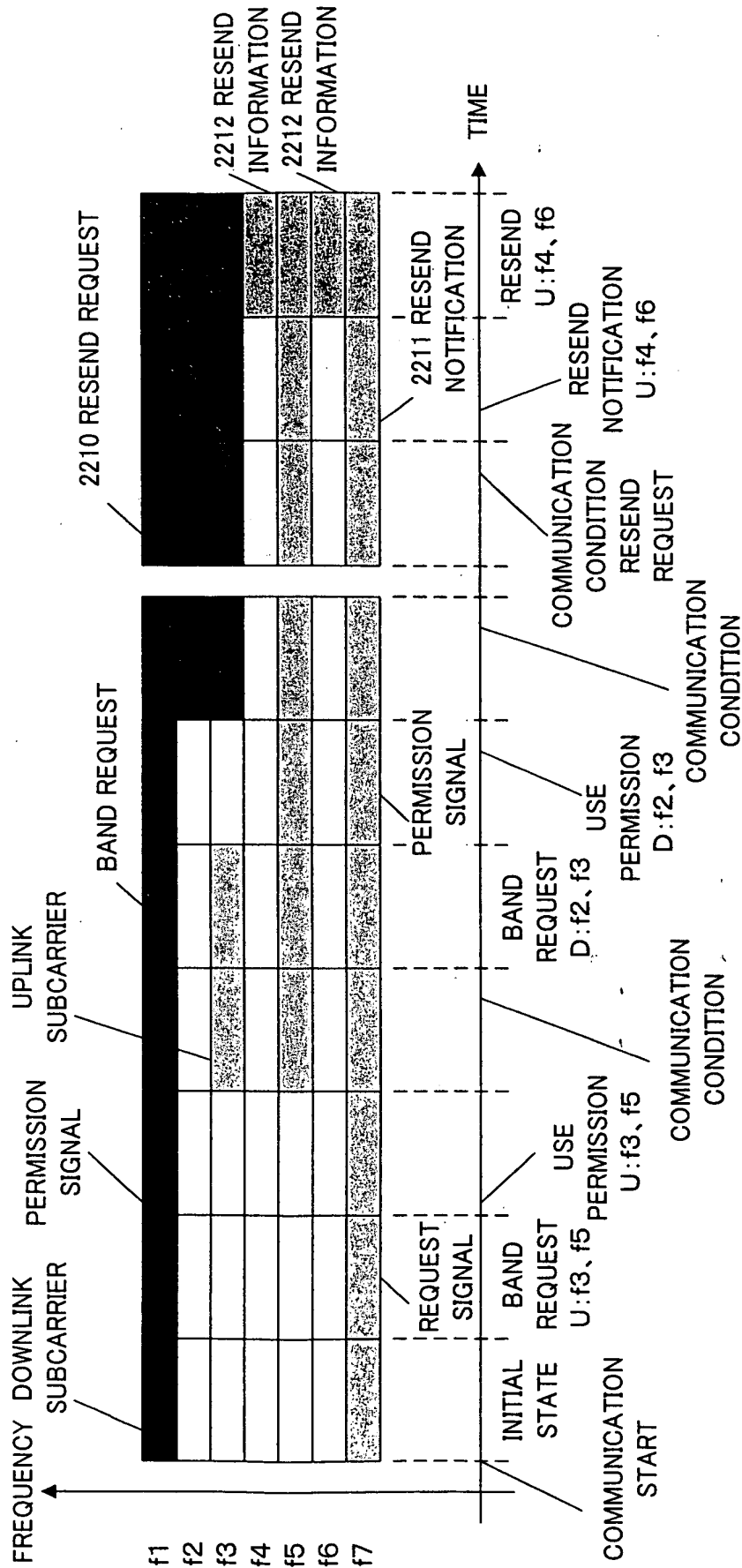


FIG.24

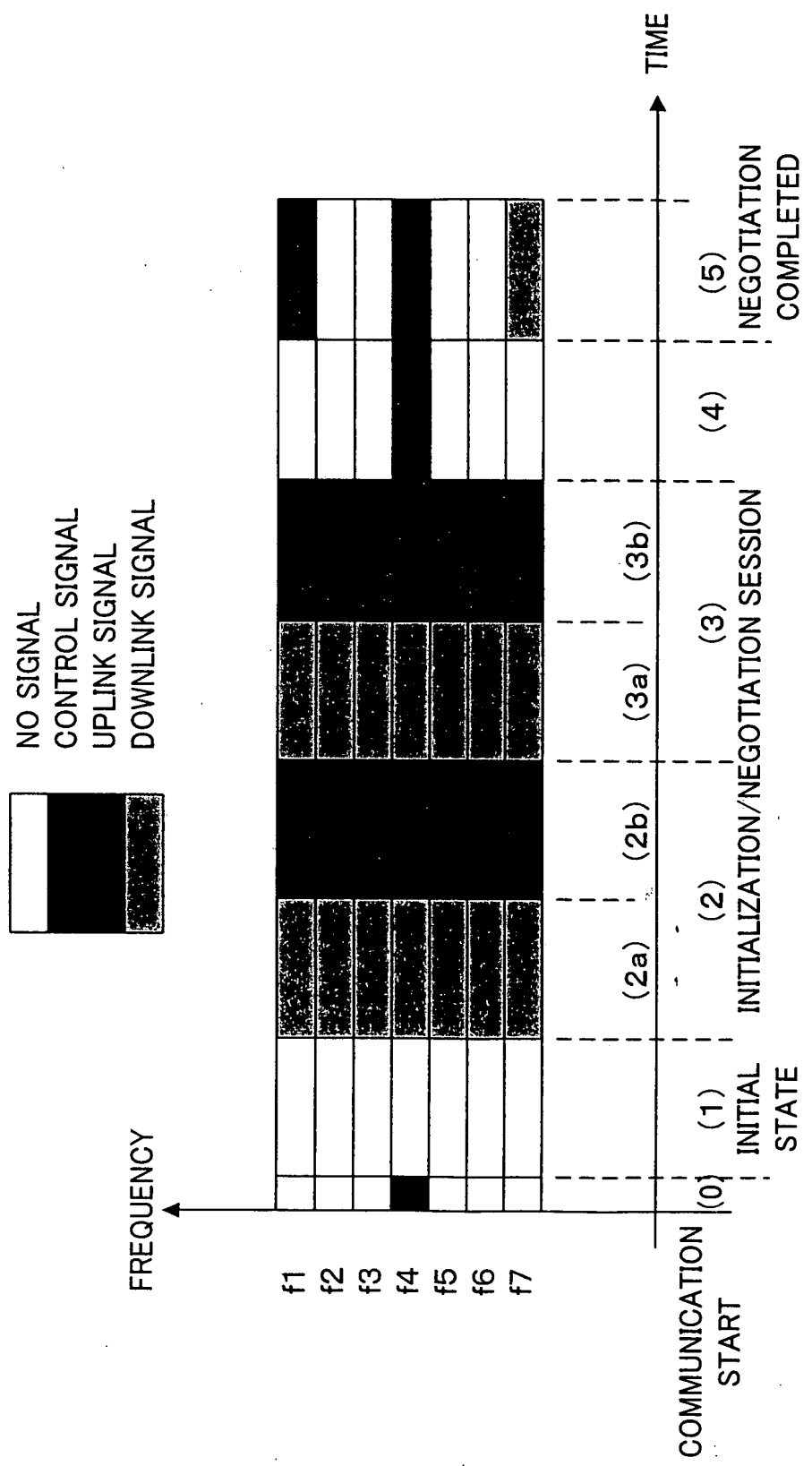


FIG.25

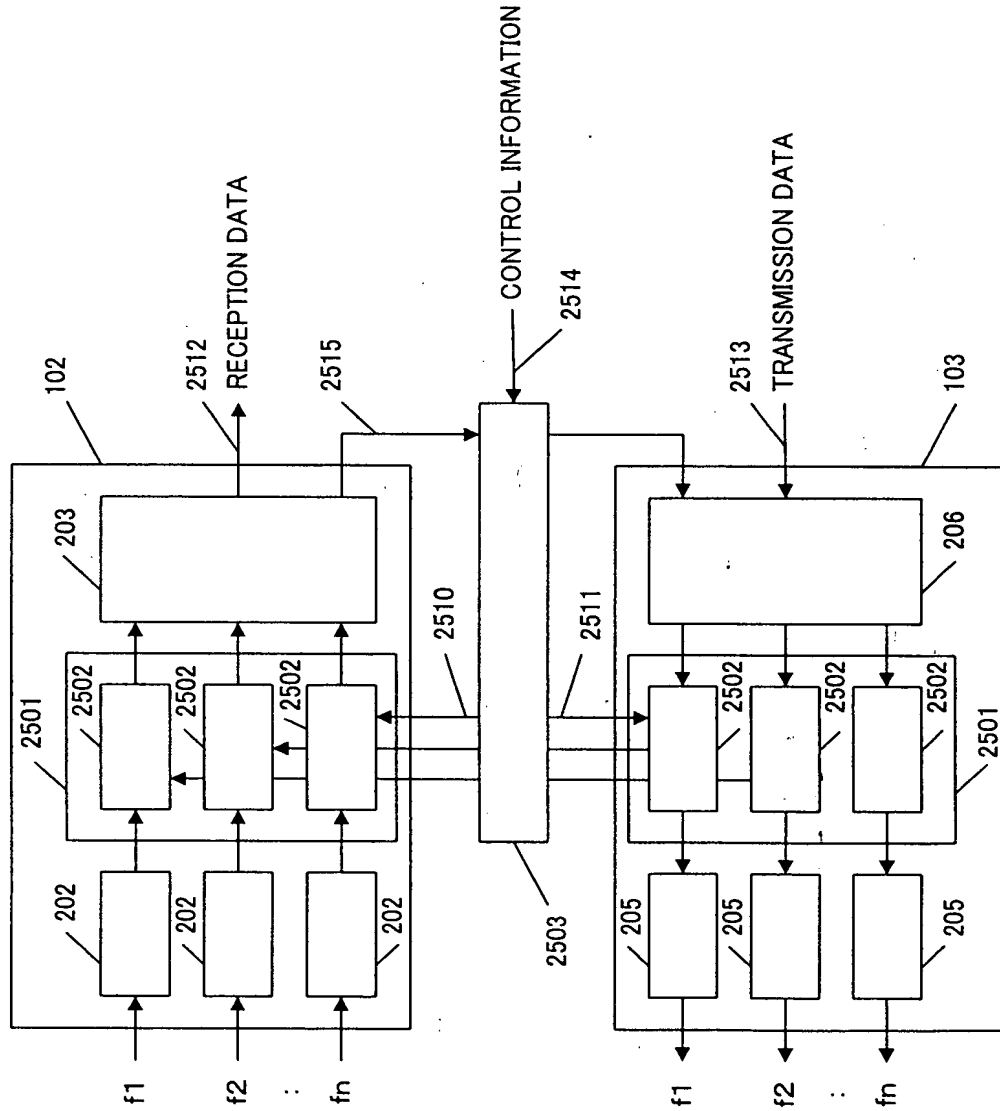


FIG.26

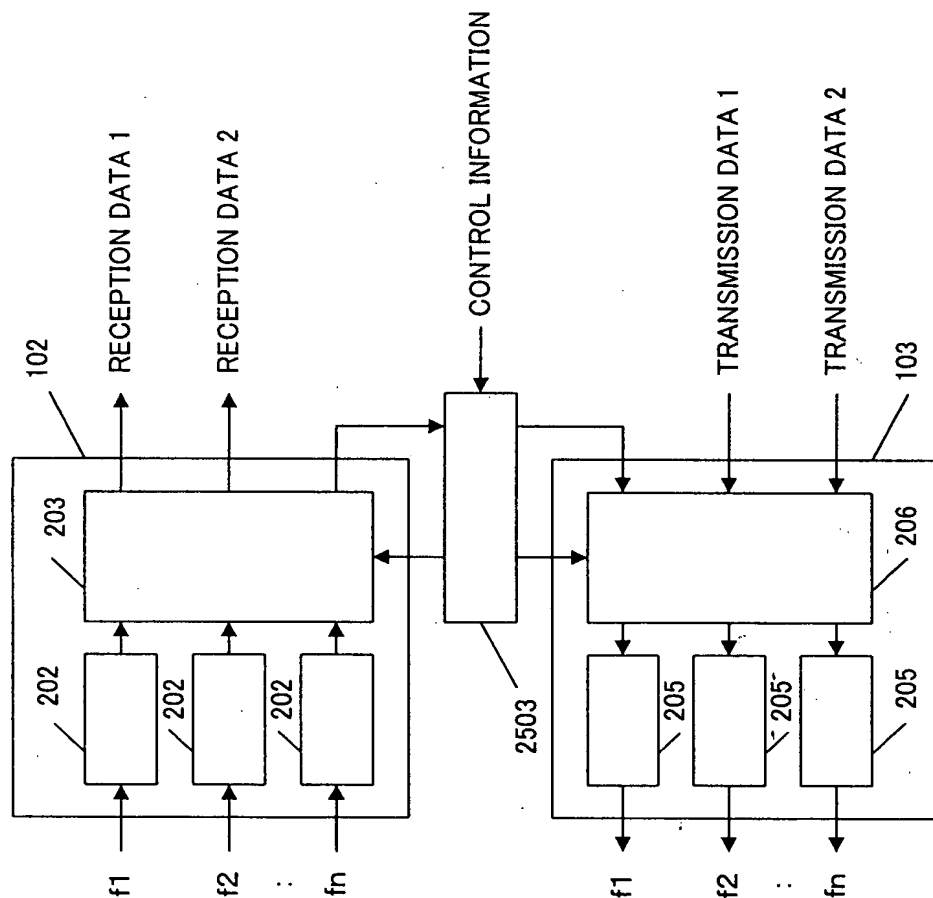


FIG.27

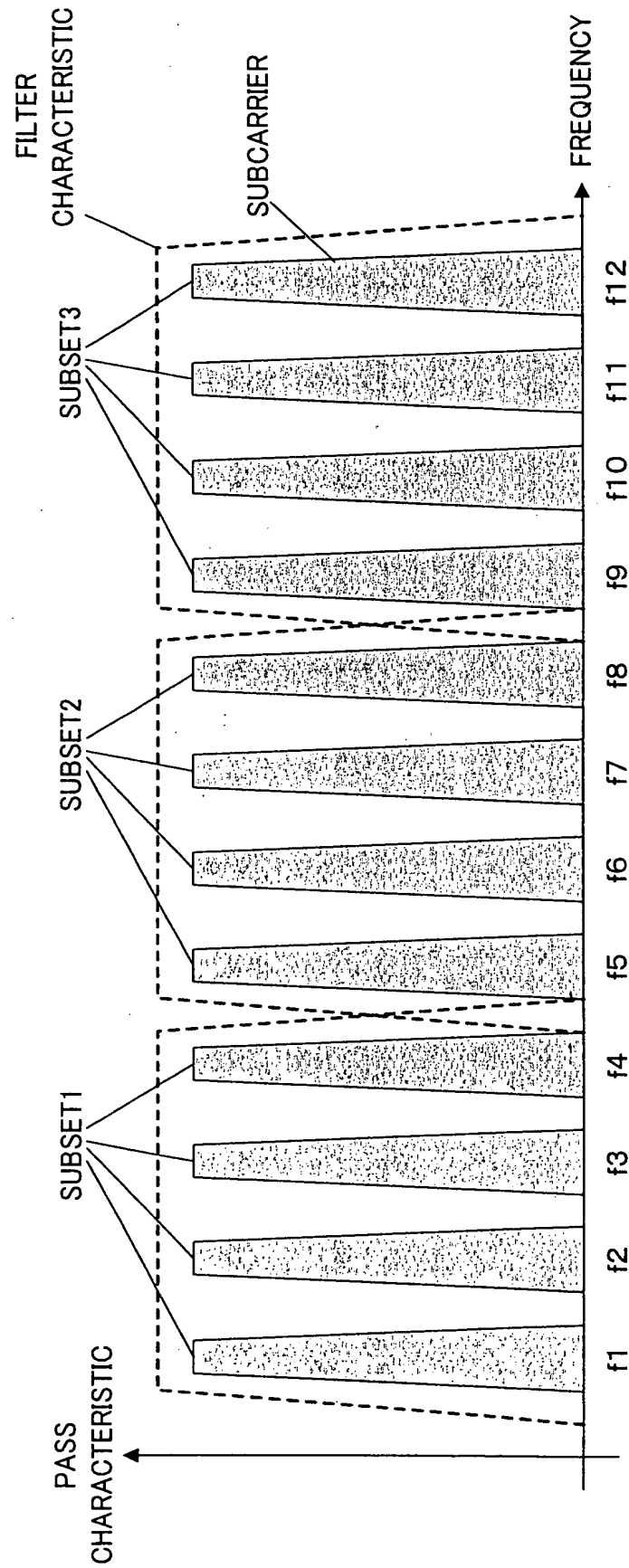


FIG.28

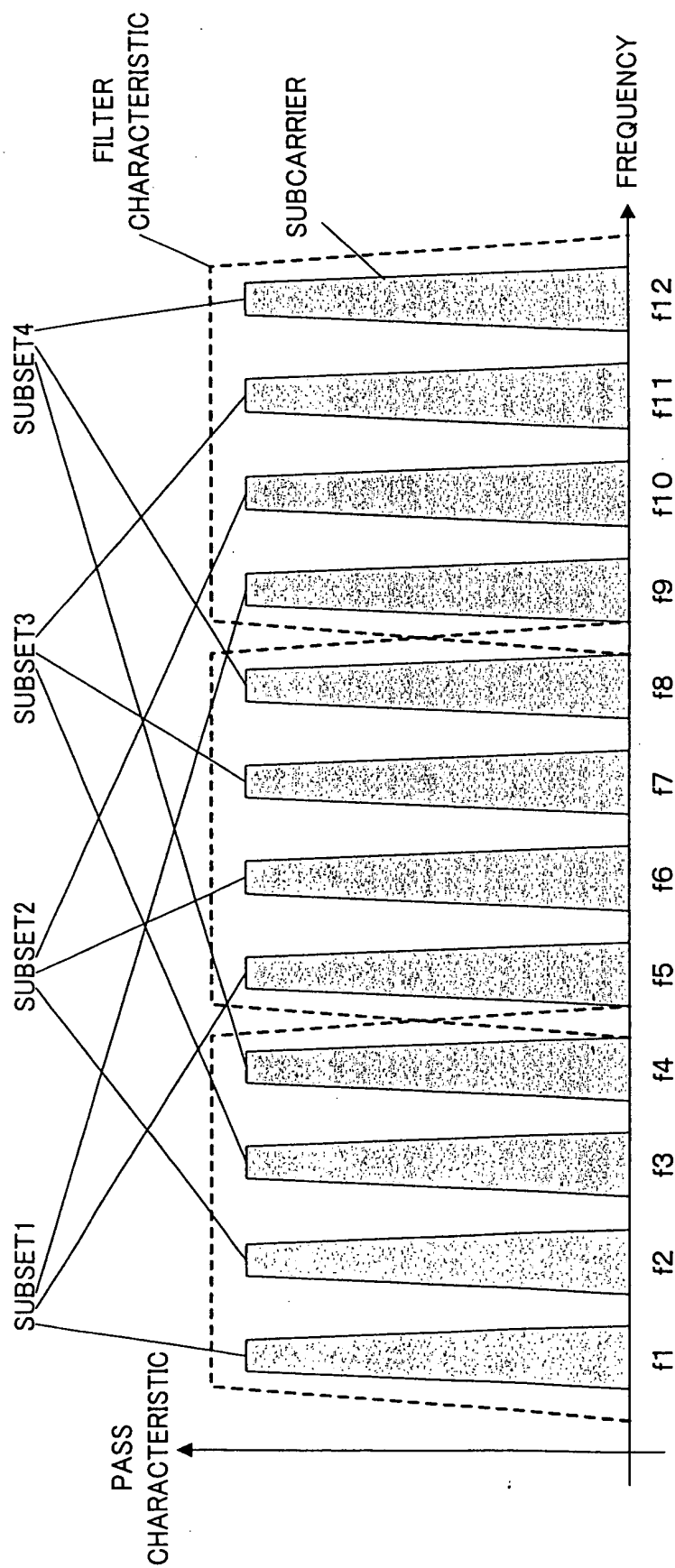


Figure 1 is a 2D grid diagram illustrating a sequence of operations or states over time and frequency. The vertical axis is labeled 'FREQUENCY' and ranges from f_1 to f_{12} . The horizontal axis is labeled 'TIME' and ranges from t_1 to t_8 . The grid is divided into three subsets, each containing a 3x4 checkerboard pattern of black and white cells. Subset 1 (rows f_1 to f_3) has black cells at $(f_1, t_1), (f_1, t_3), (f_1, t_5), (f_1, t_7), (f_2, t_2), (f_2, t_4), (f_2, t_6), (f_2, t_8), (f_3, t_1), (f_3, t_3), (f_3, t_5), (f_3, t_7)$. Subset 2 (rows f_4 to f_6) has black cells at $(f_4, t_2), (f_4, t_4), (f_4, t_6), (f_4, t_8), (f_5, t_1), (f_5, t_3), (f_5, t_5), (f_5, t_7), (f_6, t_2), (f_6, t_4), (f_6, t_6), (f_6, t_8)$. Subset 3 (rows f_7 to f_9) has black cells at $(f_7, t_3), (f_7, t_5), (f_7, t_7), (f_8, t_1), (f_8, t_3), (f_8, t_5), (f_8, t_7), (f_9, t_2), (f_9, t_4), (f_9, t_6), (f_9, t_8)$. The grid is bounded by dashed lines on the left and right, and solid lines on the top and bottom.

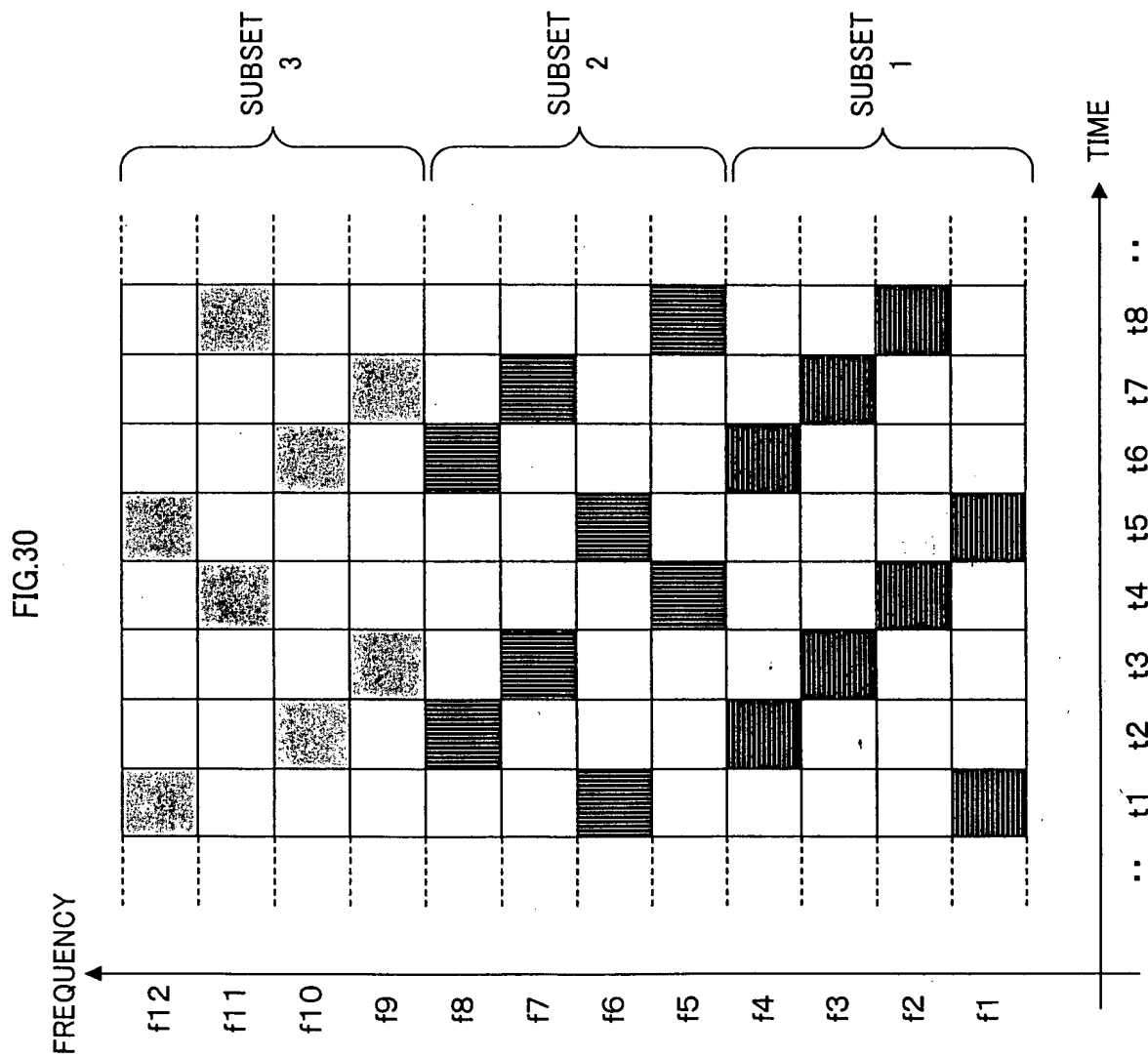


FIG.31

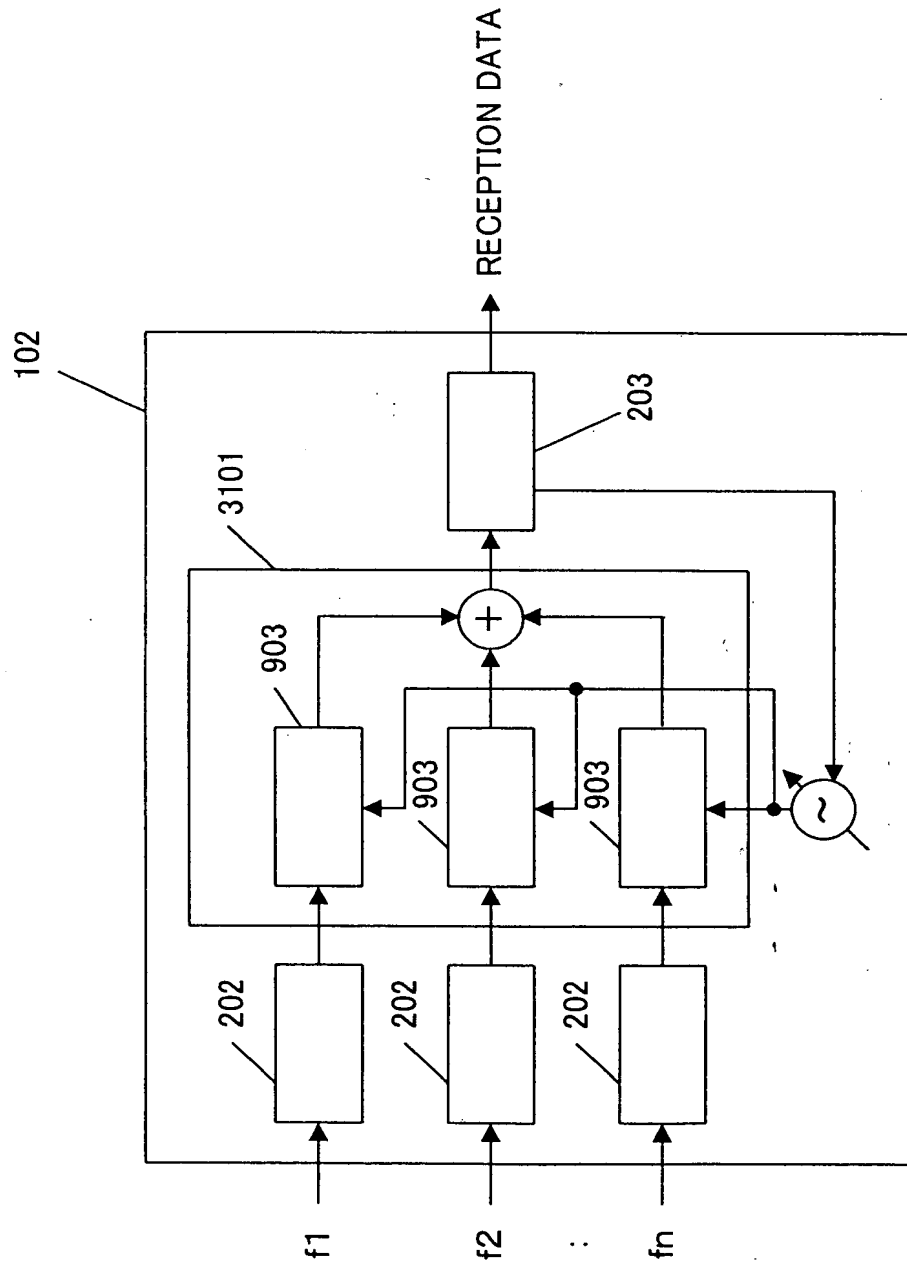


FIG.32

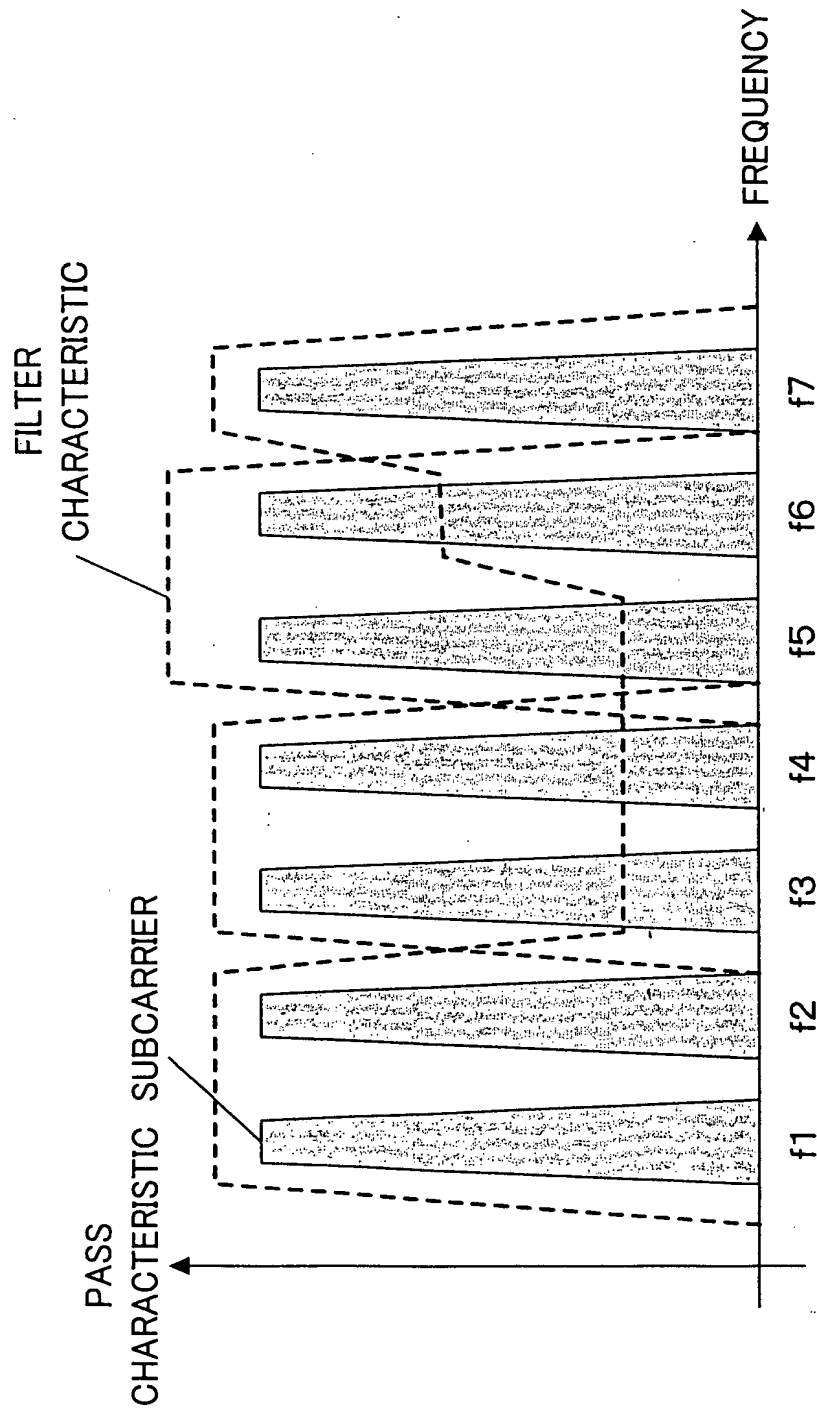


FIG.33

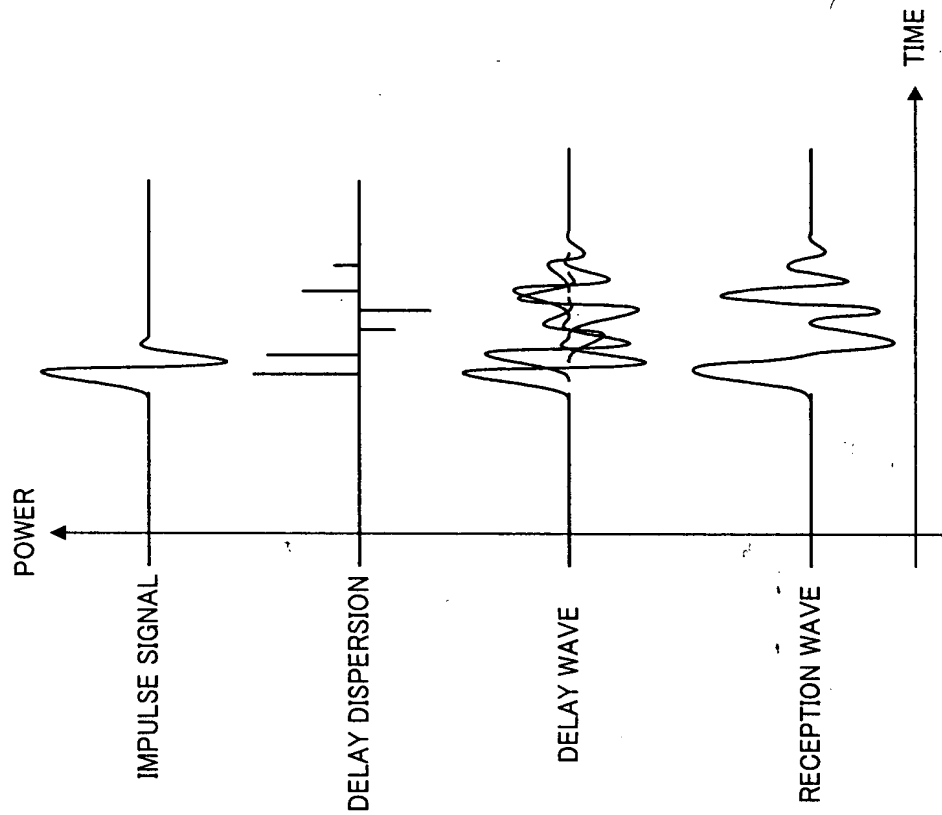


FIG.34B

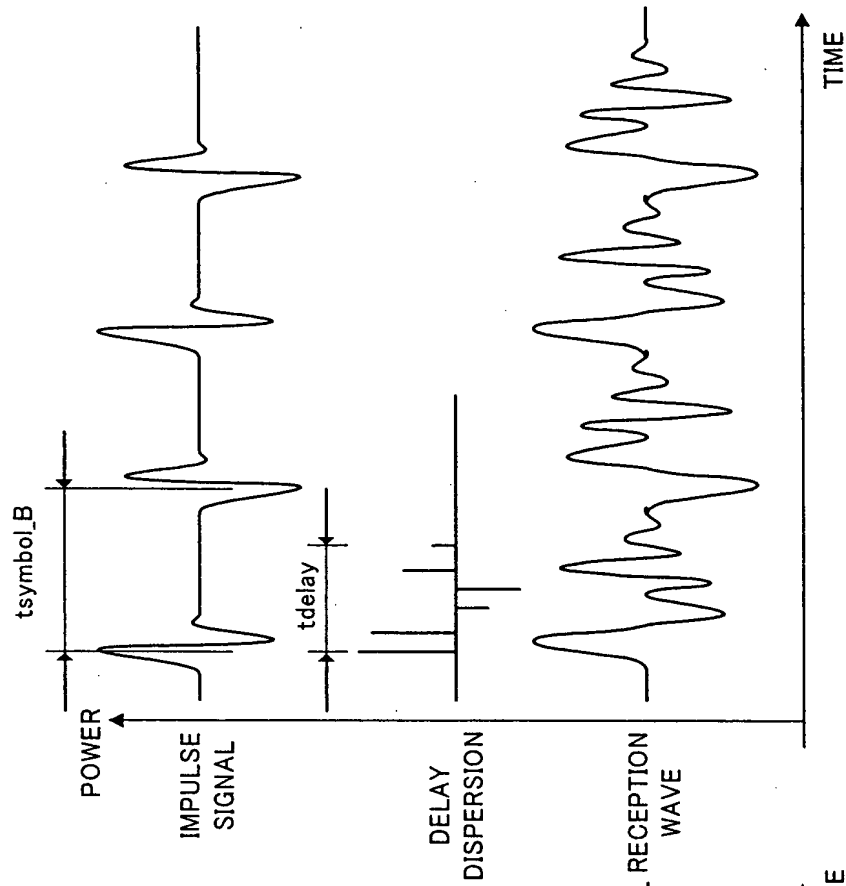


FIG.34A

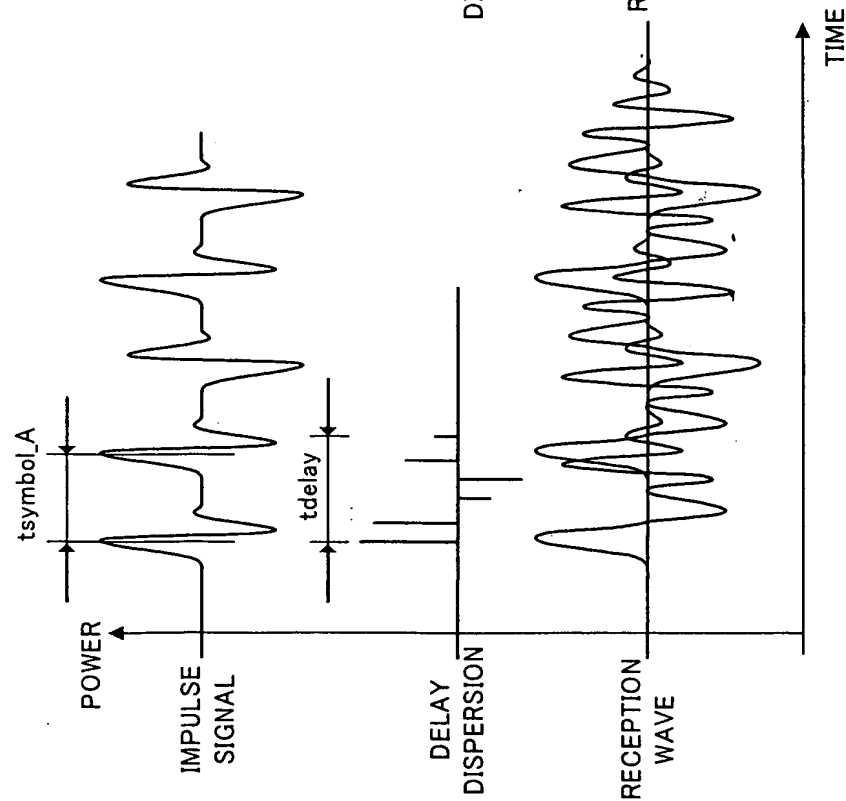


FIG.35

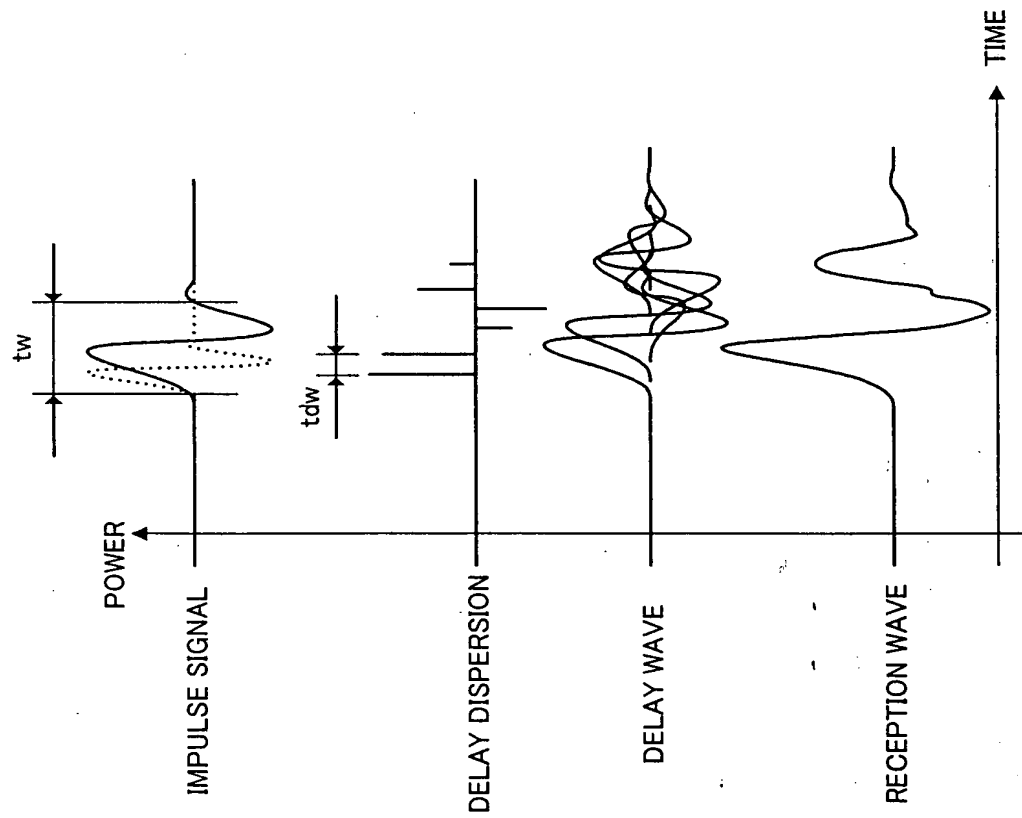


FIG.36

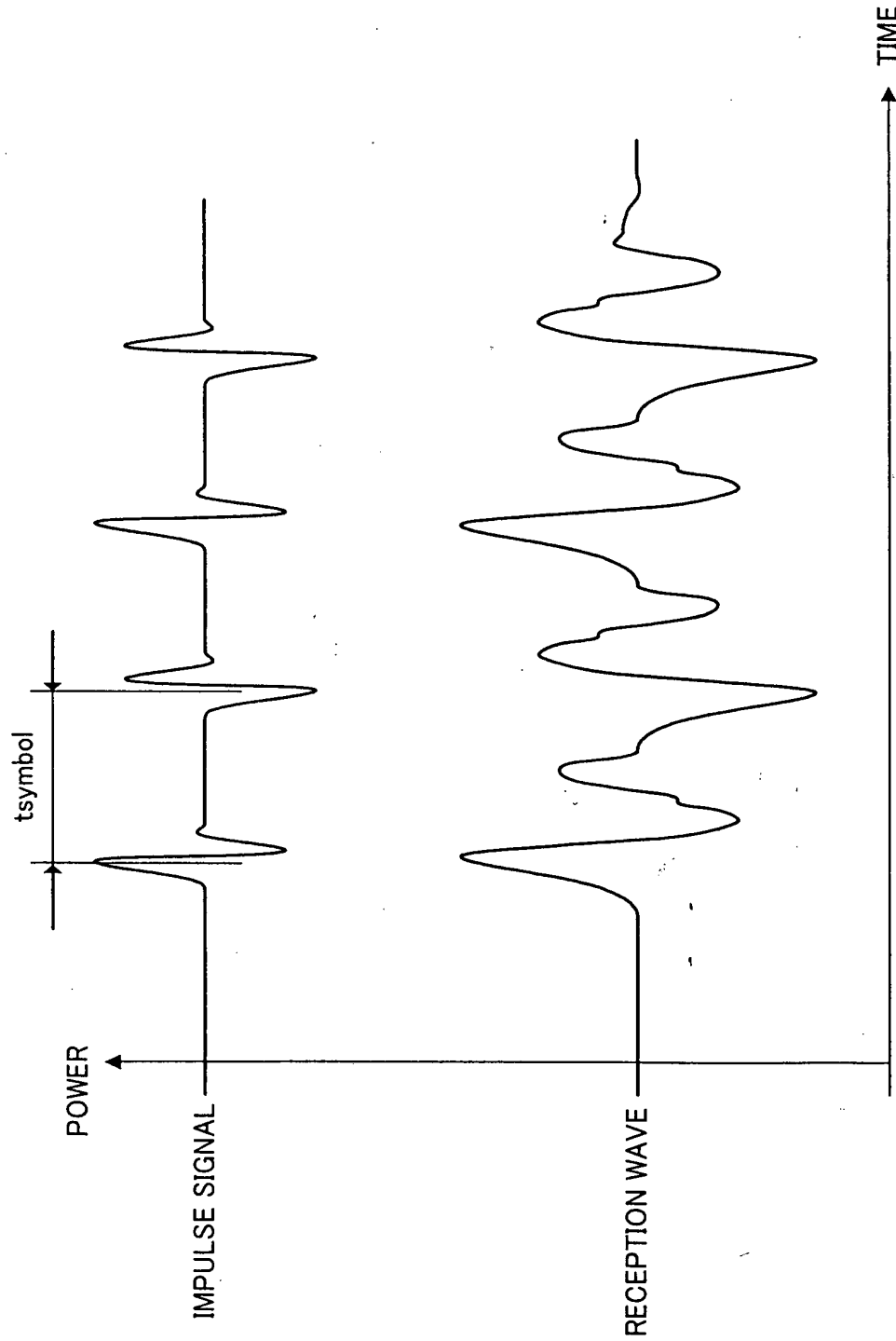


FIG.37

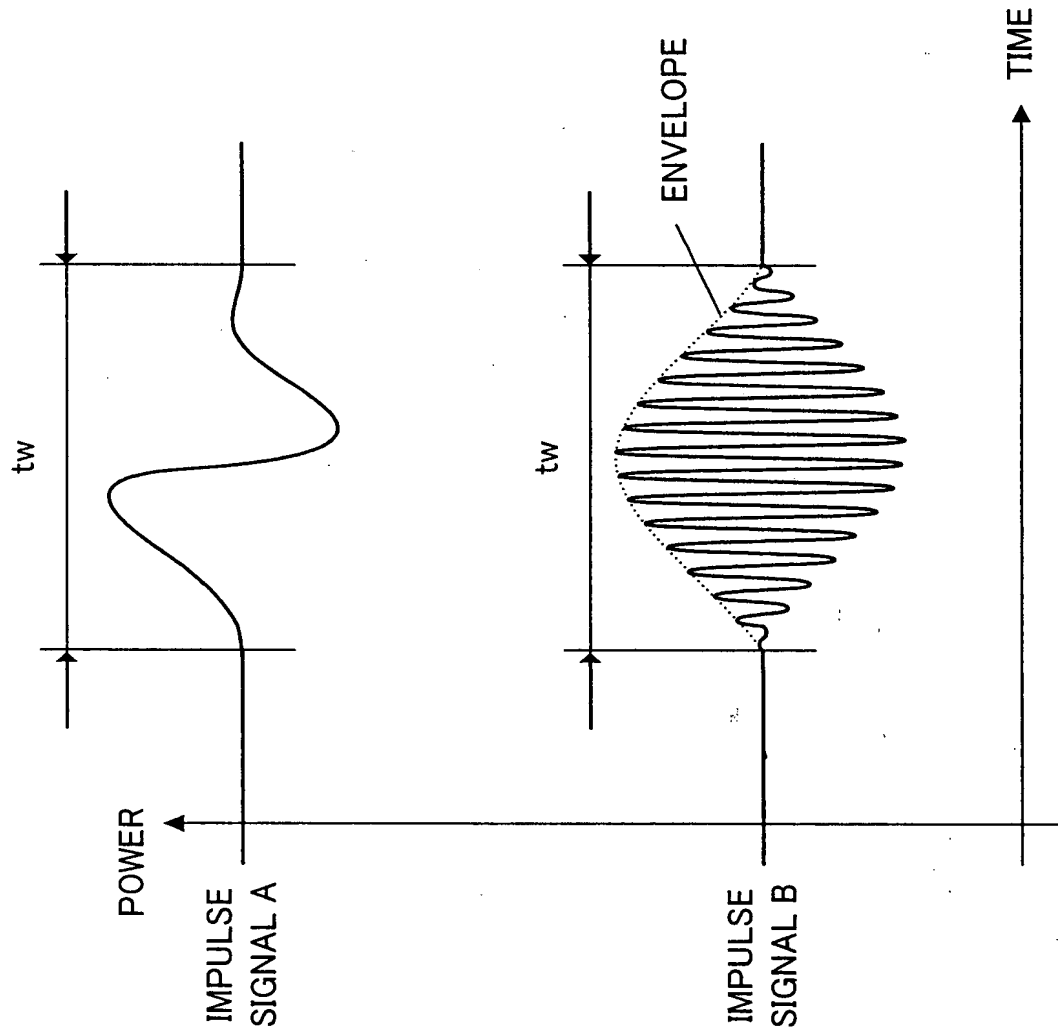


FIG.38

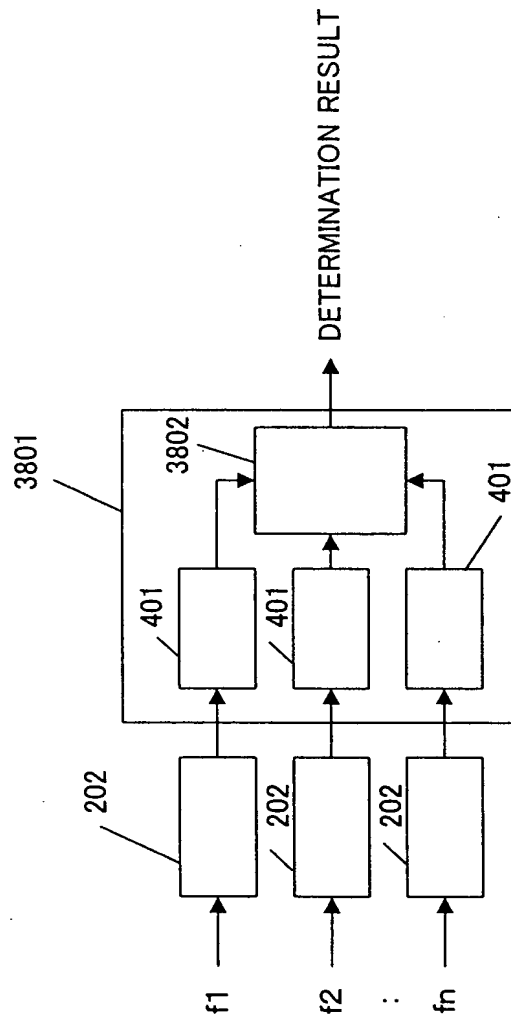


FIG.39

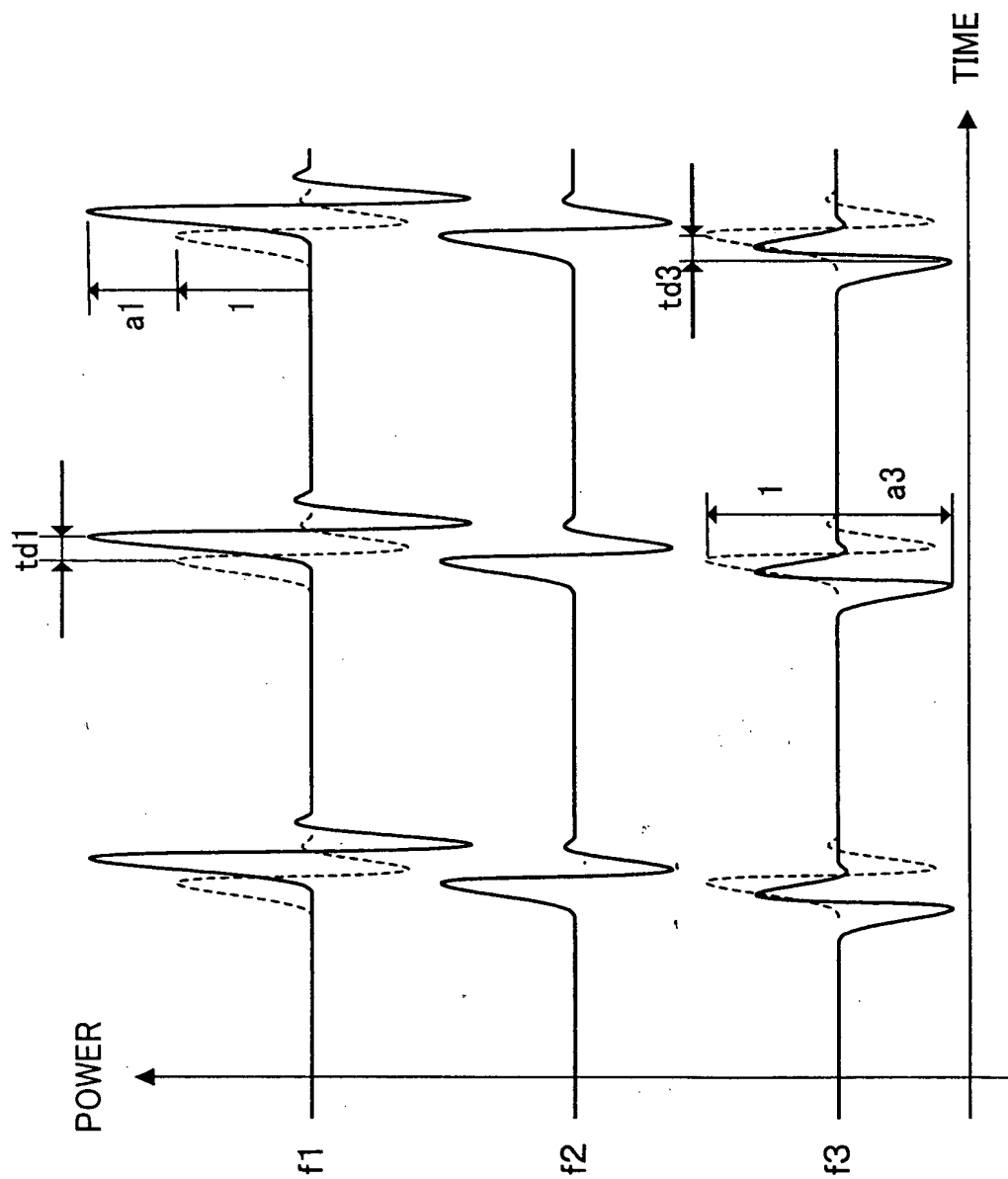


FIG.40

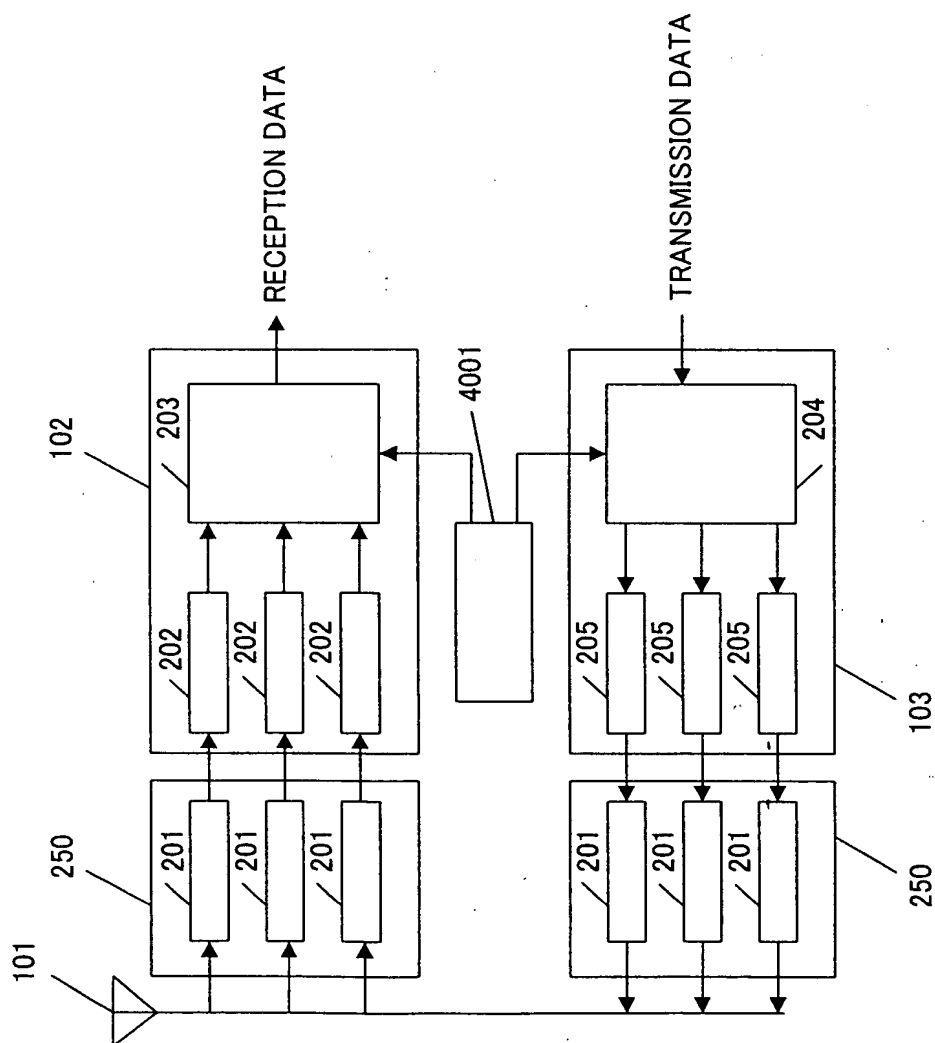


FIG.41

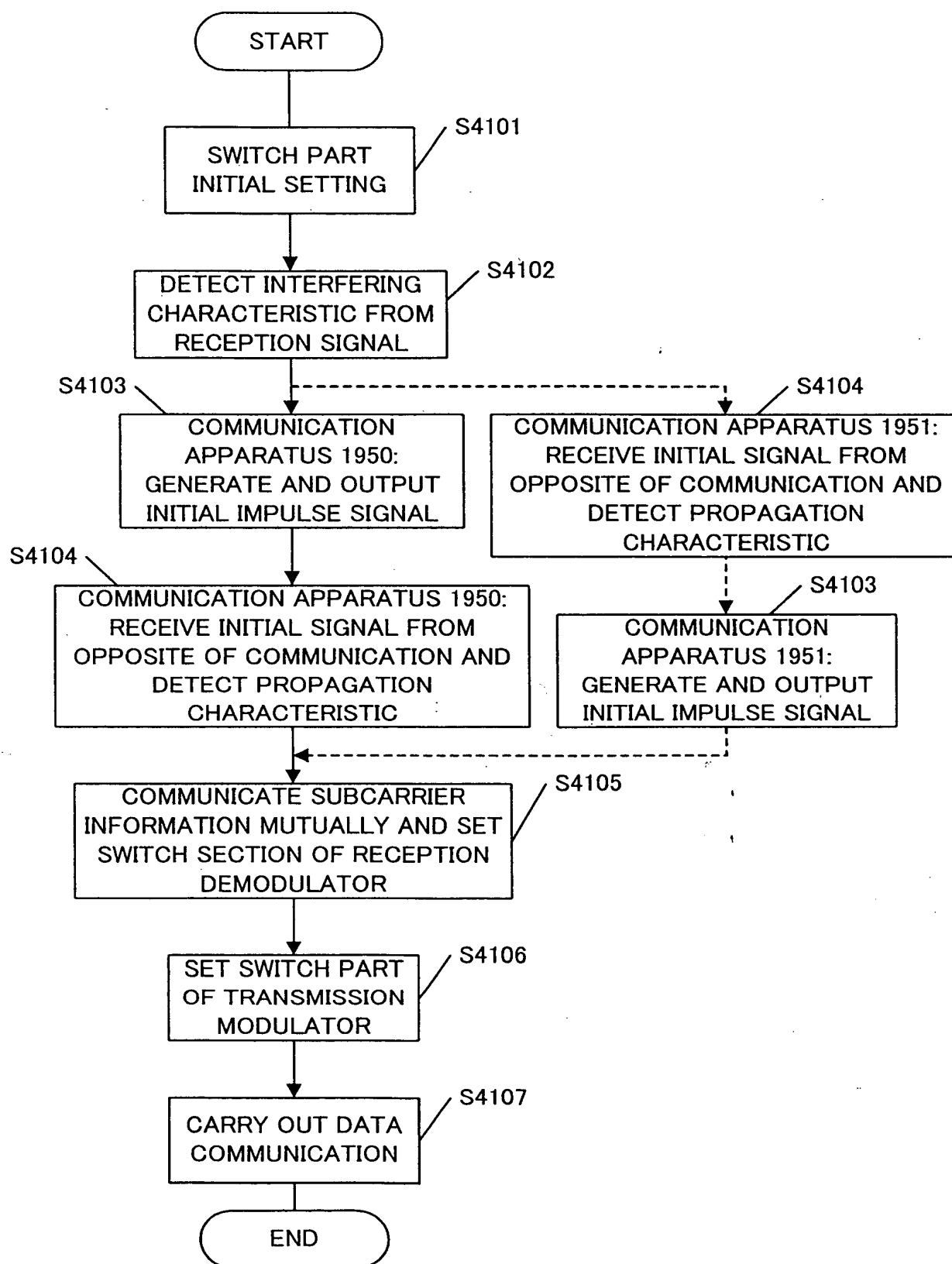


FIG.42

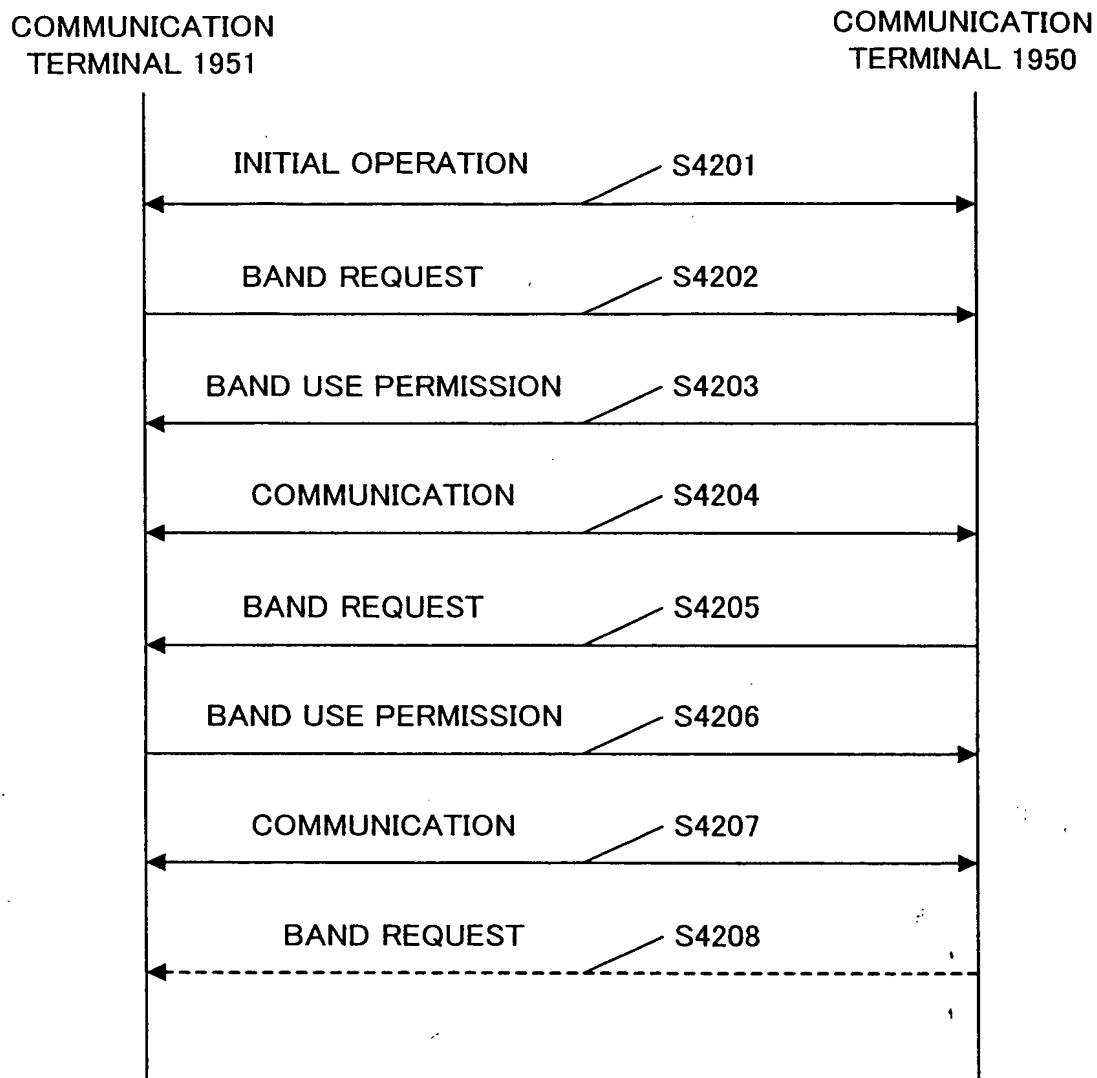


FIG.43

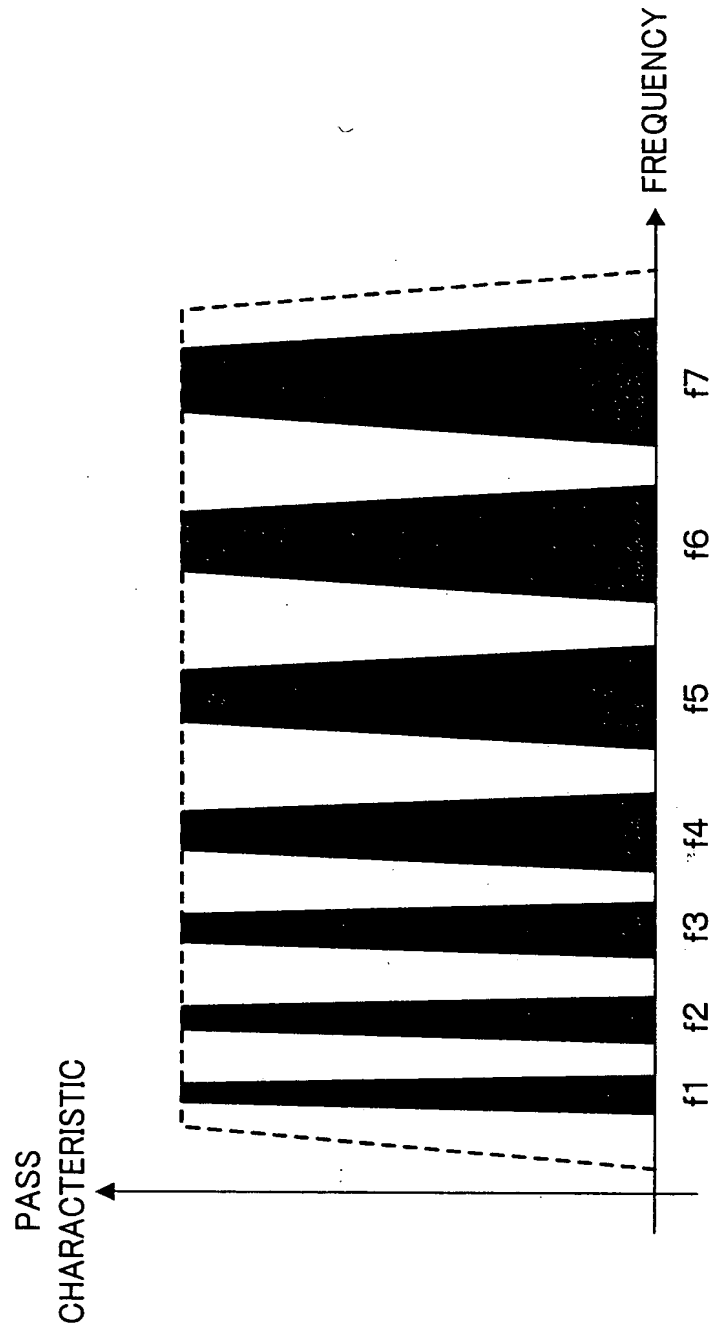
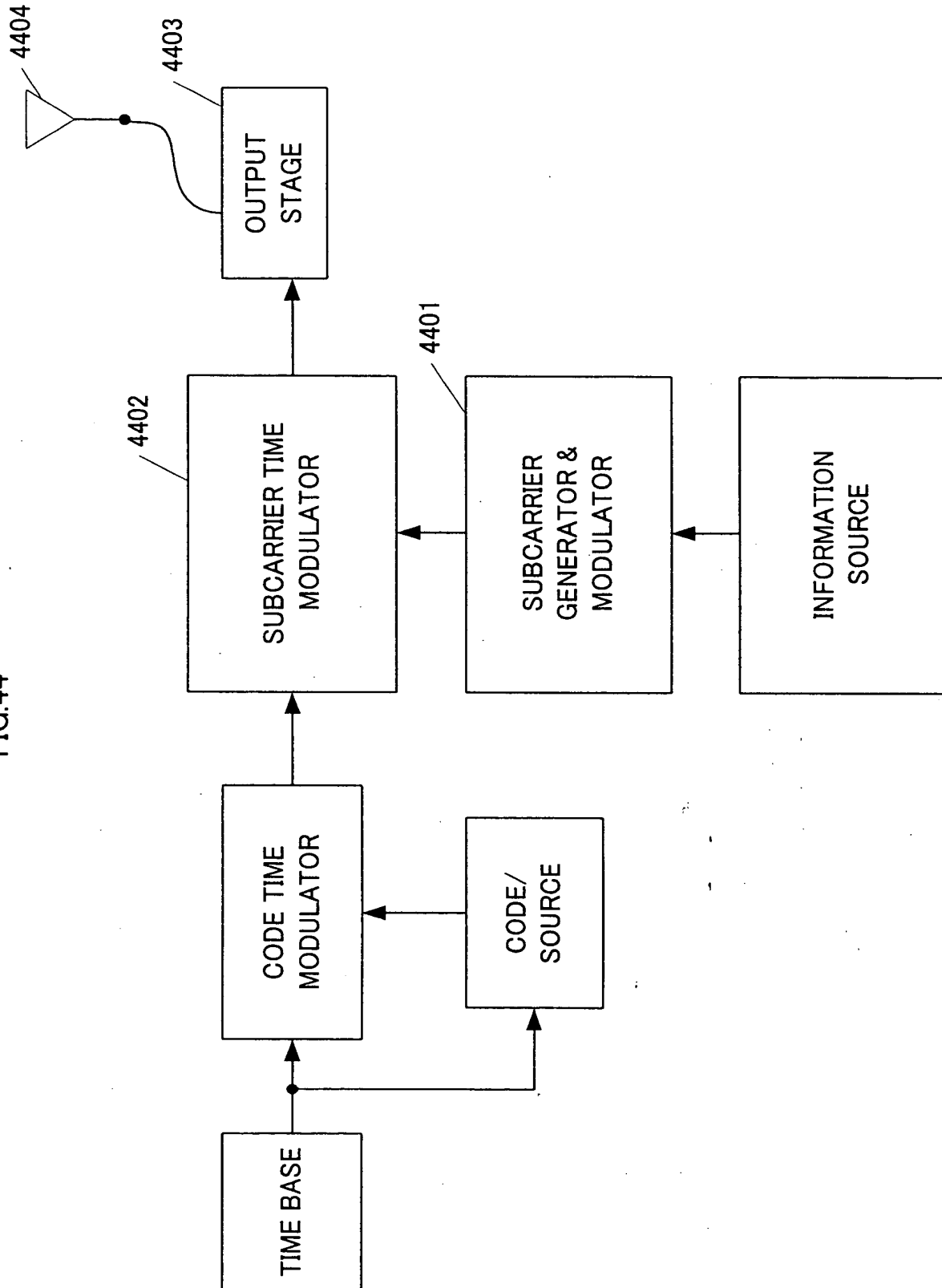


FIG.44



List of references in drawings

101 ANTENNA

102, 2501 RECEPTION DEMODULATION PART

103 TRANSMISSION MODULATION PART

150 TRANSMISSION APPARATUS

151 RECEPTION APPARATUS

201 FILTER

202 RECEPTION PART

203 DEMODULATION PART

204 MODULATION PART

205 TRANSMISSION PART

206, 502 WAVEFORM GENERATING PART

250 FILTER PART

401, 501 COMPENSATION PART

402 OPERATION PART

403 DETECTION PART

901 SPREAD CODE STORING PART

902 DISPREAD PART

903, 1002 MULTIPLICATION PART

1001 SPREAD PART

1950, 1951 COMMUNICATION APPARATUS

2501 SWITCH PART

2503 CARRIER CONTROL PART

3101 FREQUENCY CONVERSION PART

3801 DETERMINING PART

3802 DETECTION PART

4001 CHANNEL CONTROL PART

4401 SUBCARRIER GENERATOR & MODULATOR

4402 SUBCARRIER TIME MODULATOR

4403 OUTPUT STAGE

4404 ANTENNA

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